SMART Handportable

MC 9620 S G2 V34/EN

User Guide

MATRA NORTEL
COMMUNICATIONS

AVERTISSEMENTS

TO BE READ BEFORE USE

SAFETY INSTRUCTIONS

- Do not use or start up the terminal in an environment exposed to explosion hazards or near explosive equipment.
- See page 6 for battery security precautions.
- Never hold or touch the antenna during a call.

MNC disclaims all responsibility if the equipment is used in non-observance of such instructions, or of this manual in general.

PRECAUTIONS

- The terminal is to be used only with accessories approved by the manufacturer. Using other accessories may be dangerous and will void the warranty.
- On board a vehicle, it is preferable to use the terminal with an external antenna, since the radiation emitted by the antenna might interfere with the operation of some of the vehicle electronic equipment.

NOTICE

The functions available on MC9620 handportables depend on the options available on the network and on the customisation of each handportable.

Only the authorised functions appear on the handportable.

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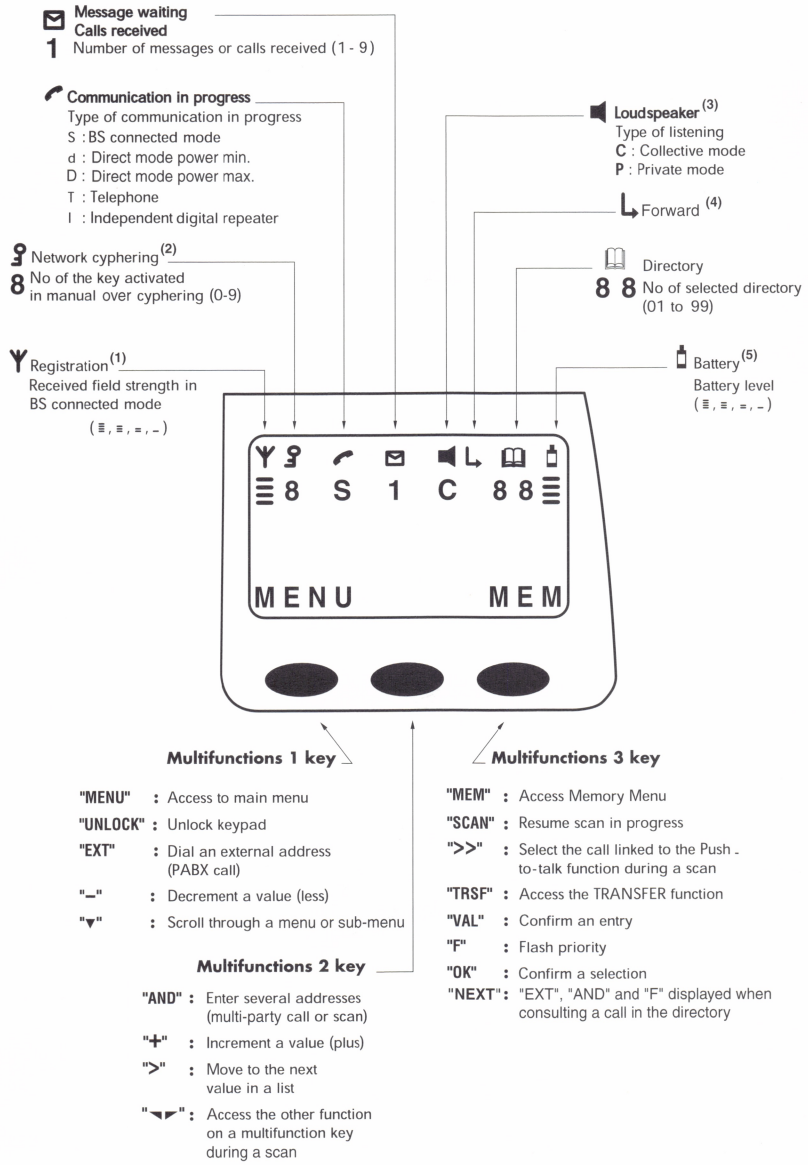
Functions of the keys


Message waiting
Calls received
1 Number of messages or calls received (1 - 9)
Communication in progress
Type of communication in progress
S : BS connected mode
d : Direct mode power min.
D : Direct mode power max.
T : Telephone
I : Independent digital repeater
Network cyphering (2)
8 No of the key activated in manual over cyphering (0-9)
Registration (1)
Received field strength in BS connected mode
Loudspeaker (3)
Type of listening
C : Collective mode
P : Private mode
Forward (4)
Directory
8 8 No of selected directory (01 to 99)
Battery (5)
Battery level
8 S 1 C 8 8
MENU
MEM
Multifunctions 1 key
"MENU" : Access to main menu
"UNLOCK" : Unlock keypad
"EXT" : Dial an external address (PABX call)
"–" : Decrement a value (less)
"▼" : Scroll through a menu or sub-menu
Multifunctions 2 key
"AND" : Enter several addresses (multi-party call or scan)
"+" : Increment a value (plus)
">" : Move to the next value in a list
"◄►" : Access the other function on a multifunction key during a scan
Multifunctions 3 key
"MEM" : Access Memory Menu
"SCAN" : Resume scan in progress
">>" : Select the call linked to the Push-to-talk function during a scan
"TRSF" : Access the TRANSFER function
"VAL" : Confirm an entry
"F" : Flash priority
"OK" : Confirm a selection
"NEXT" : "EXT", "AND" and "F" displayed when consulting a call in the directory

(1) The symbol flashes in the BSC and RSW disconnected mode, while waiting for registration, and in the IDR mode.
(2) The symbol flashes when the call is not cyphered.
(3) The symbol flashes when the silence mode is activated.
(4) The symbol flashes during set up or transfer cancellation.
(5) The symbol flashes when the charge level is very low.

Safety instructions

- The terminal should be used only with batteries, chargers, power supplies and connecting cables approved by MNC.
- Do not throw the battery in a fire.
- Never short-circuit the battery.
- Charge the battery as soon as possible, when it is discharged.

Installing the battery

- Align and insert the six studs of the battery into the six slots in the slides.
- Push the battery up until it locks in place.

Charging the battery

- Before first using the terminal, and subsequently every six months, it is recommended to successively run a battery reconditioning cycle (REFRESH), using the multi unit charger.

- The battery is fully recharged when the charge level symbol shows four bars. The battery charge level can be checked, as a percentage, from the "**5 METERS**" sub-menu in the Main Menu.

Removing the battery

CAUTION:
The handportable must be switched off before the battery is removed.

- Turn off the handportable.
- Press the battery release button on the rear of the handportable.
- Slide the battery down and out.

Protection of the environment

The batteries contain heavy metals. Do not discard a worn battery with household refuse.
Use appropriate collectors so that the battery can be recycled without pollution.

Starting the terminal ____ 8

Volume adjustment ____ 8

Turning off the terminal ____ 8

Entering a call reference ____ 9

Using the C key ____ 10

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Using the multifunction keys ____ 10

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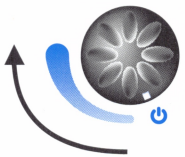
Using the menus ____ 12

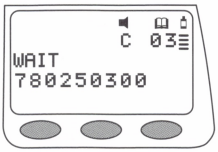
Audible signals (ringing, tones and beeps) ____ 14

STARTING THE TERMINAL

Turn clockwise the selector switch located at the top left.
The terminal generates an information beeps.

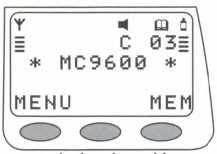


The message "**WAIT**" and the address of the handportable flash for a few seconds (handportable initialisation).

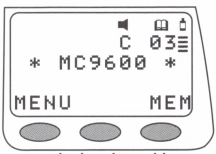


The home message is then displayed:

- if the handportable is under network coverage: the registration symbol and the field level received are displayed and the registration indicator light flashes green.
- otherwise, the registration symbol and the field level received are not displayed and the registration indicator light is out.



The handportable is under network coverage

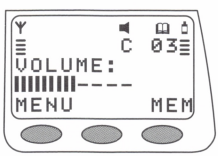


The handportable is not under network coverage

As an options, the terminal automatically returns into the call it was in before it was turned off (automatic return to call following off/on), provided it is available.

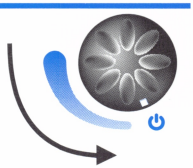
VOLUME ADJUSTMENT

Turn the selector to adjust the audio level of the tones, beeps, ringing, and voice. The terminal features 16 preset levels corresponding to the selector positions.
The level corresponding to the selected selector position is displayed.



TURNING OFF THE TERMINAL

Turn counterclockwise the selector located at the top left, into the ⏻ position.
The terminal generates an information beep and turns off.



ENTERING A CALL REFERENCE

Entering an address (individual call, multi-party call)

Each terminal is identified by a 9-digit number (address) broken down into four RFSI fields where:

- **R** (Regional network) : 3 digits,
- **F** (Fleet) : 1 digit,
- **S** (Sub-fleet) : 1 or 2 digits, depending on the option,
- **I** (Individual) : 4 or 3 digits, depending on the option.

To **place** a **private call**, **dial part** or **all** of the called party's number, following the instructions below:

- called party in the same sub-fleet: **dial** only the **I** field
- called party in the same fleet: **dial** the **SI** fields
- called party in the same regional network: **dial** the **FSI** fields
- called party in a different regional network: **dial** the **RFSI** fields

Similarly, when **receiving** a **private call**, the handportable displays only the field(s) of the number of the caller which are different from its own number.

Entering an open channel number (depending on the option)

To **enter** an open **channel:**

- dial its number (between 1 and 255): the handportable enters any available open channel with this number whatever the Regional Network (RN). If the handportable changes RN and finds an open channel with the same number, it automatically re-enters this open channel,

or

- dial the number of the RN (3 digits) and that of the open channel (6-digit open channel): the handportable enters only the open channel of the selected RN. Until the open channel becomes available, the handportable is on standby to enter an open channel (open channel number flashes on the display).

Entering a group number (depending on the option)

To **enter** a group: dial the group number (from 1 to 3499).

Entering a channel number in direct or IDR mode (depending on the option)

To **enter** a channel in **direct mode**: dial the channel number (from 1 to 999).

To **enter** a channel in **IDR mode**: dial the IDR channel number (from 1 to 499).

USING THE C KEY

During data entry:

- Short press: erases the last character entered.
- Long press: erases all the characters entered.

While displaying a menu:

- Short press: returns to next level up.
- Long press: leaves the menu.

While displaying an information message:

- Short press: erases the information message.

USING THE CALL KEYS (PUSH-TO-TALK, , AND)

The **push-to-talk** key is used to **accept a call** or **talk** during a call. Talking is possible only when the transmit indicator is on red.

The key is used to **send** or **accept** a call.

The key is used to **end** or **reject** a call. This key is timed and must be pressed and held.

The key is used to **send**, at any time, an **emergency call**. This key is timed and must be pressed and held.

USING THE MULTIFUNCTION KEYS

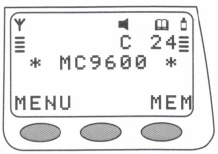
These keys are associated with several functions which depend on the operating context. The functions are displayed only when available and when they can be activated. A key with no associated function is ineffective. Hereafter, a multifunction key is shown as followed by the name of the associated function.

USING THE CALL SELECTOR

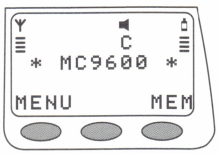
The call selector has 16 mechanical positions (0 to 15).
It is associated with an access range (00, 10, 20, …, or 90) which enables to select one of the 99 calls stored in the terminal directory (to change the access range associated with the selector, refer the sub-menu "**7 SETTINGS**" in the Main Menu.

The selected directory position is displayed under the "🕮" icon: this position takes into account the selected range and the selector position.

Example: If the access range is 20 and the selector is in position 4, the selected directory number is 24.



The selector has a neutral position corresponding to access range 0 and selector position 0.
When the selector is at neutral, the icon "🕮" longer displayed.



Changing the call selector **position causes:**

- Final exit from the current call.
- Automatic initiation of the call corresponding to the new position (at the end of a one-second timeout) unless the new position is the neutral position or an empty position.

USING THE MENUS

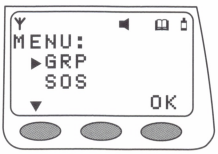
The terminal has five scroll down menus:
Main, Directory, Open channel or Group
(depending on the option), Message, and Direct.
Each menu is associated with a specific key.

To select a menu:

- Main menu: **Press** ⬭ under "**MENU**".
- Directory menu: **Press** ⬭ under "**MEM**".
- Open channel or Group menu: **Press** GRP .
- Message menu: **Press** ✉ .
- Direct menu: **Press** DIR .

To select an entry from a menu:

- **Press** ⬭ under "▼", to bring the cursor "▶" in front of the desired heading or feature.
- **Press** ⬭ under "**OK**", to validate your choice.



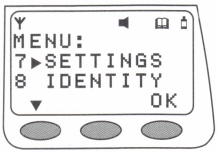
To select a heading or feature by number (from Main Menu only)

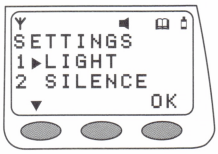
The Main Menu is divided into 8 sub-menus, numbered from 1 to 8 in a circle. Each sub-menu has numbered headings associated with features. To select a heading or associated feature, you can either scroll through the list, or enter the code associated with the heading or feature

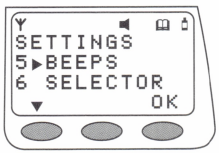
Example: To select the heading **"5 BEEPS"** of sub-menu **"7 SETTINGS"**, from the Main Menu:

By scrolling:

- **Press** ⬭ under **"MENU"**.
- **Press** several times ⬭ under **"▼"** to bring the cursor **"▶"** in front of sub-menu **"7 SETTINGS"**.
- **Press** ⬭ under **"OK"** to validate your choice.
- **Press** several times ⬭ under **"▼"** to bring the cursor **"▶"** in front of heading **"5 BEEPS"**.
- **Press** ⬭ under **"OK"** to validate your choice.



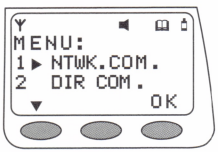


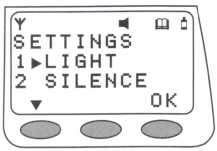


or

By entering the heading number:

- **Press** ⬭ under **"MENU"**.
- **Press** ❼ to select sub-menu **"7 SETTINGS"**.
- **Press** ❺ to select the heading **"5 BEEPS"**.





AUDIBLE SIGNALS (RINGING, TONES AND BEEPS)

Depending on the context, the terminal generates audible signals in addition to the displayed messages. These audible signals are divided into several categories: ringing tones, tones, and beeps.

Ringing tones

Call ringing: indicates an incoming private call (individual, multiple or telephone).

Emergency ring: indicates an incoming emergency call.

Tones

Routing tone: sent while searching for the destination of the call placed.

Call return tone: sent during the ringing phase at the call destination.

Wait tone: sent when the talk request in a group is put into standby.

Beeps

Interruption beeps: generated to indicate a pending end of communication or to inform the user of an event classified as major or to indicate that the handportable is leaving network coverage. It can be unique or periodically repeated.

Acknowledgement beep: generated to indicate that the user command has been detected and accepted, and that processing related to the command is in progress.

Error beep: generated to indicate that a user command has been refused or has failed.

Information beep: generated to call the user's attention to a particular minor event. It can be unique or periodically repeated. In particular, it is emitted to indicate that a push-to-talk request has failed as the group communication is no longer available (communication reference flashes on the display), or to indicate that the current communication is moving from cyphered to non-cyphered status. Certain beeps can be removed (refer to sub-menu "**7 SETTINGS**" in the Main Menu).

Placing a call 16

Private calls (individual, operator, multi-party, telephone) 16
Flash priority 17
Group communication (open channel or group, depending on the option) 18
Direct mode call 19
IDR mode call 19
Emergency call or direct mode emergency call 20

Talking 21

Speaker identity (optional) 21

Ending a call 21

Calling the last number dialed (Last Number Redial function) 21

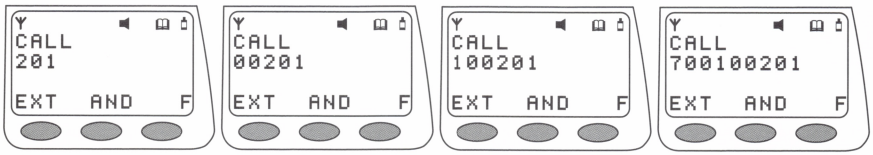
Transfer 22

PLACING A CALL

Private calls (individual, operator, multi-party, telephone (PABX))

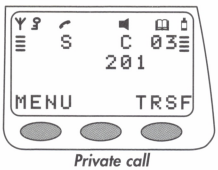
Individual call

- **Enter** the called address (field(s) **I, SI, FSI** or **RFSI**) of the called party or the operator.



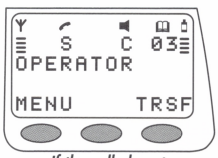
If the entry is incomplete, the "**EXT**", "**AND**" and "**F**" functions are not displayed.

- **Press** .
- Call routing tone followed by call ringing.
- When the called party accepts the call, the handportable displays either:



Private call

or



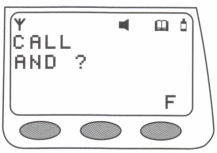
If the called party is an operator

Multi-party call

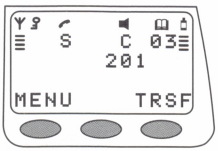
The multi-party call function allows calling up to 4 numbers at the same time.

Example: dialing a multi-party call to 2 parties:

- **Enter** the address of the first party. The first address can also be selected in the directory, from the repeat function or received calls memory function.
- **Press** under "**AND**".

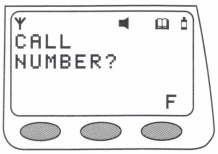


- **Enter** the address of the second party.
- **Press** .
- Call routing tone followed by call ringing
- When the call is accepted by at least one of the called parties, the handportable displays:

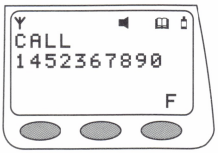


Telephone (PABX) call

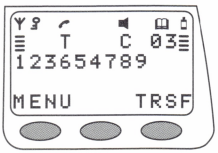
- **Enter** the PABX interface address (**I, SI, FSI,** or **RFSI**).
- **Press** ⬭ under "**EXT**"; the terminal displays:



- **Dial** the number (15 digits maximum).



- **Press** .
- Call routing tone followed by call ringing.
- When the called party accepts the call, the handportable displays the last 12 digits of the external number:



Flash Priority

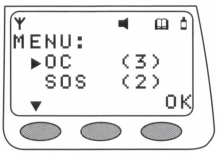
Private calls, open channels and open channel scans can be sent with a **Flash** priority.

WARNING:
This operation may cut off calls in progress by preempting radio resources

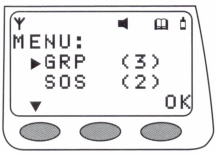
- **Place** the call (private, enter open channel or open channel scan).
- **Press** ⬭ under "**F**".
- **Press** .

Group communication (open channel or group, depending on the option)

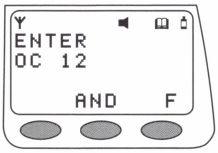
- **Press** GRP. The handportable displays either:



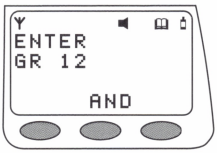
or



- **Dial** the open channel or group number. The handportable displays either:



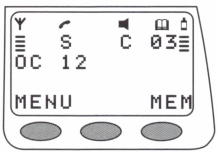
or



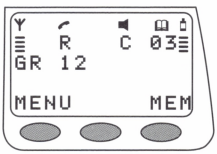
The key under "**AND**" is used to enter the number of another open channel or group when dialing a scan (see chapter on Scans).

- **Press** .

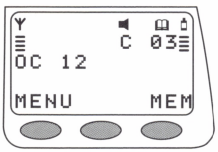
If the group communication **is available,** the handportable enters the call and displays either:



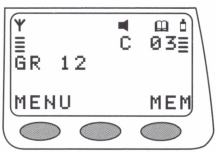
or



If the group communication **is not available** (or when the handportable leaves the group call coverage), the handportable stores the request and remains on **standby to enter** the group communication. It emits repeated beeps and displays either:



or



"CONF 12" flashes on display

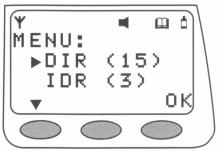
"GR 12" flashes on display

As soon as the group communication **becomes available**, the handportable **automatically enters** the group communication and the display becomes steady on.

Direct mode call

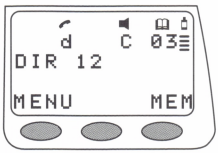
Using the direct mode enables to communicate with all the parties within radio range and on the same channel. If the "**NETWORK MONITORING**" function (see sub-menu "**2 DIR COM**" in the Main Menu) is not activated, the terminal can no longer be reached by the network.

- **Press** DIR. The handportable displays:



- **Dial** the channel number in the direct mode.

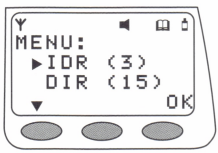
- **Press** .
- When the call is set up, the handportable displays:



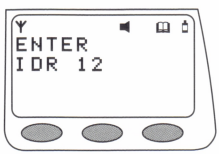
IDR mode call

The Independent Digital Repeater mode allows radio terminals to communicate via an independent digital repeater over the channels selected by user.

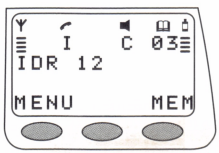
- **Press twice** DIR. The handportable displays:



- **Dial** the channel number in the IDR mode.



- **Press** .
- When the call is set up, the handportable displays:



Emergency call or direct mode emergency call

Pressing and holding down the key sends an emergency call. Depending on the option, the emergency call results in the opening of an emergency open channel or an operator call back request. When the emergency call cannot be set up (handportable in direct mode, outside coverage or problem joining the network), the emergency call is automatically switched to a direct mode emergency call.

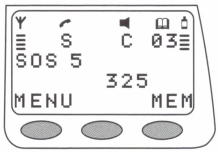
- **Press** and hold **down** key (red). The handportable displays either:

Emergency call

or

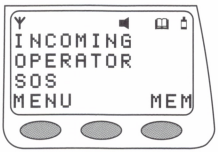
Direct mode emergency call

- Routing tone, then the handportable displays either:



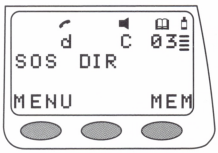
Emergency open channel

or



Operator call back

or



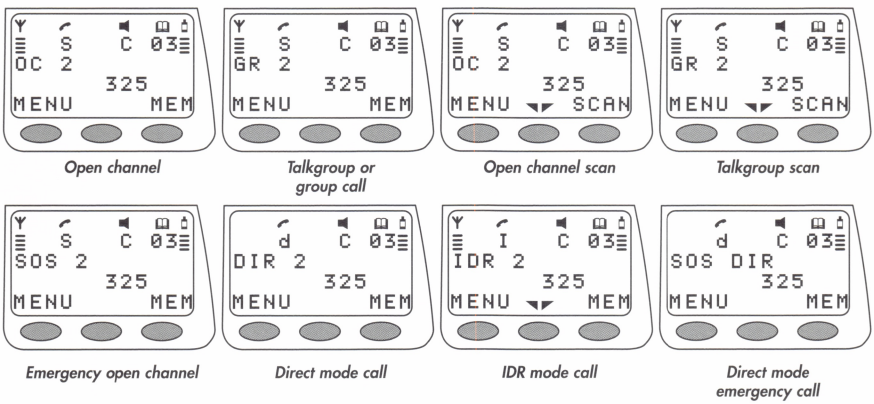
Direct mode emergency call

TALKING

- When the call is set up, **press push-to-talk** to speak.
  Wait until the transmit indicator light red before speaking.
- Release the push-to-talk when you have finished speaking.

SPEAKER IDENTITY (OPTIONAL)

When a call is set up, the **person speaking is identified**
on the display of the monitoring terminals
where his number (or address) flashes.
This is displayed for the following communications:



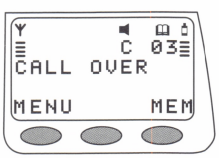
Open channel | *Talkgroup or group call* | *Open channel scan* | *Talkgroup scan*

Emergency open channel | *Direct mode call* | *IDR mode call* | *Direct mode emergency call*

The whole (RFSI fields - 9 digits) or part
(FSI fields - 6 digits, SI fields - 5 digits or I field - 3 or 4 digits)
of the speaker's address is displayed, depending on whether he belongs to the same RN, the same fleet or the same sub-fleet as the monitoring terminal.

ENDING A CALL

- **Press** and hold **down** . The handportable displays:



CALLING THE LAST NUMBER DIALED (LAST NUMBER REDIAL FUNCTION)

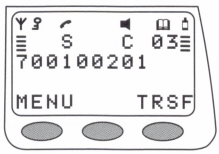
The handportable stores the last number dialed (except for the emergency call).

- **Press** under **"MEM"**.
- **Press** .

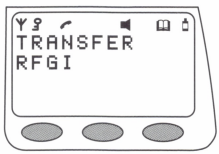
TRANSFER

Call transfer is used to redirect a private call (individual or telephone) to another recipient.

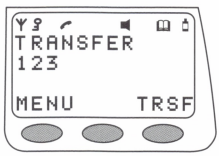
- The handportable is, e.g., in individual call



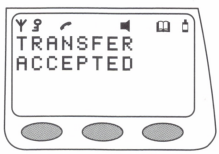
- **Press** ⬭ under **"TRSF"**.



- **Enter** the address of the transfer terminal.



- **Press** 📞 .



When the request is acknowledged, the handportable finally exits the call and returns to its initial condition.

Presentation of private call (individual, multi-party, telephone, operator) 24

Special case when you are in group communication when the call comes 25

Presentation of a priority call 25

Presentation of an emergency call 26

Presentation of a direct mode emergency call 27

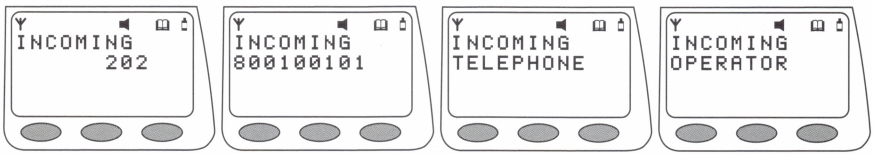
Presentation of a general call (broadcast call) 28

Open channel opening signal (depending on the option) 28

PRESENTATION OF PRIVATE CALL (INDIVIDUAL, MULTI-PARTY, TELEPHONE, OPERATOR)

The presentation of a private call takes place when the handportable is on standby or in group communication.
The calls are presented by ringing, completed by a message specifying the type of call.

For an individual or multi-party call *For a telephone call* *For an operator call*

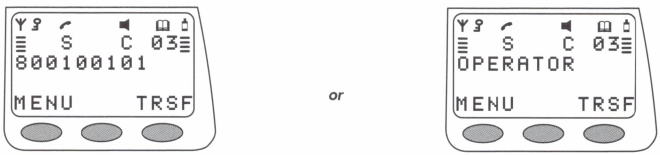


Number belonging to your subfleet

Number belonging another regional network

- **Press** or Push-to-talk to **accept** the call:

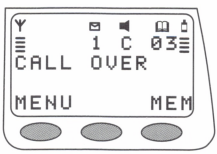
A routing tone is emitted during call setup.
When the call is set up, the handportable displays either:



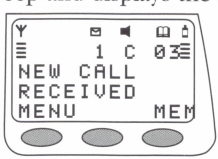
Individual or multi-party call

Operator call

- **Press** and hold **down** to **reject** the call. The handportable then displays:



If you do not answer the call, or if you reject the call, the call is stored in the call received memory (refer to the Message Menu chapter).
As an option, if you do not reply or if you refuse the call, the handportable emits a repeated beep and displays the following message:



Press to **erase** the message.

SPECIAL CASE WHEN YOU ARE IN GROUP COMMUNICATION WHEN THE CALL COMES

During the ringing phase, you no longer participate in the current group communication.

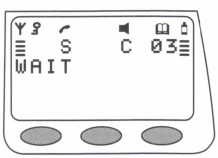
If you **reject** the call, you return to the group communication.

If you **accept** the call, you momentarily leave the group comunicaton for the time of the call. At the end of the call, you automatically return to the group communication.

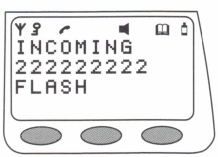
PRESENTATION OF A PRIORITY CALL

If you are in an individual call and a higher priority call comes in, you are automatically switched to this new incoming call.

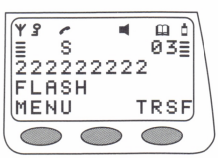
The call interruption is indicated by an interruption beep and the following message is displayed:



Then the terminal displays the new call; a routing tone indicates that the call is being set up.

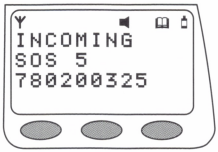


When the call is set up, the handportable displays:



PRESENTATION OF AN EMERGENCY CALL

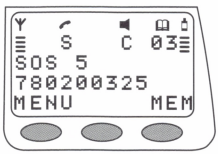
An emergency call is presented when the handportable is on standby or in group communication.
An emergency ring informs you of the incoming emergency call and the handportable displays:



The address displayed is that of the emergency terminal

- **Press** or **Push-to-talk** to **reply**.

A routing tone is emitted during call setup.
When the emergency open channel is set up, the handportable displays:



The address displayed is that of the speaker

At the end of the emergency open channel, the handportable returns to the state it was in before direct mode the emergency call was presented (on standby or in group communication).

- **Press** and hold **down** to **refuse** the emergency open channel.

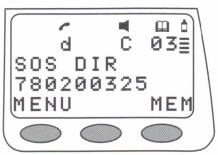
The handportable returns to its previous state (on standby or in group communication).

PRESENTATION OF A DIRECT MODE EMERGENCY CALL

A direct mode emergency call is presented when the handportable is on standby in private call, or in group communication.
An emergency ring informs you of the incoming direct mode emergency call and the handportable displays:

- **Press** or **Push-to-talk** to **reply**.

When the call is set up, the handportable displays:



The address displayed is that of the speaker

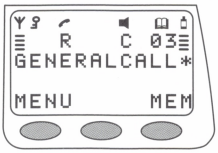
At the end of the communication, the handportable returns to the state it was in before the direct mode emergency call was presented (on standby or in group communication).

- **Press** and hold **down** to **refuse** the communication.

The handportable returns to its previous state (on standby or in group communication).

PRESENTATION OF A GENERAL CALL (BROADCAST CALL)

A general call is presented when the handportable is on standby, or in group communication.
A ringing tone informs you of the incoming general call and the handportable displays:



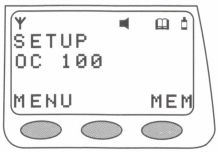
Switching to the call is automatic and cannot be rejected.
You cannot talk (the "*" symbol is displayed) nor leave the call.
At the end of the general call, the handportable returns to the state it was in before (either on standby, or in group communication).

- **Press** and hold **down** to **leave** the general call.

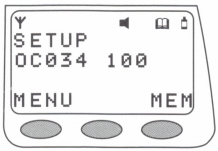
OPEN CHANNEL OPENING SIGNAL (DEPENDING ON OPTION)

The open channel opening signal is generated when the handportable is on standby or in group communication.

If the handportable is in its regional network, the following message is displayed:



If the handportable is in a visited network (e.g. RN034), the following message is displayed:



- **Press** to **enter** the displayed open channel.
- **Press** (short press) to **erase** the message.

Depending on the predefined option,
handportables have access to either open channels or to groups.

Also, handportables with the group option
can operate either in **Talkgroup mode** or **Group call mode**,
depending on their configuration.

These 3 operating modes (Open channel, Talkgroup and Group call)
are exclusive of one another.

Open channel Menu — 30

Menu structure 30
Listing the accessible open channels 31
Entering an open channel 31
Displaying the visited RN 32
Talking 32
Leaving an open channel 32
Opening an open channel 33
Closing an open channel 33

Group Menu in Talkgroup mode — 34

Menu structure 34
Listing the accessible talkgroups 35
Entering a talkgroup 35
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Activating a talkgroup 36
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Group Menu in Group call mode — 38

Menu structure 38
Listing the accessible groups 39
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Talking 40
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Leaving a talkgroup 40

Emergency Menu (common to the 3 variants) — 41

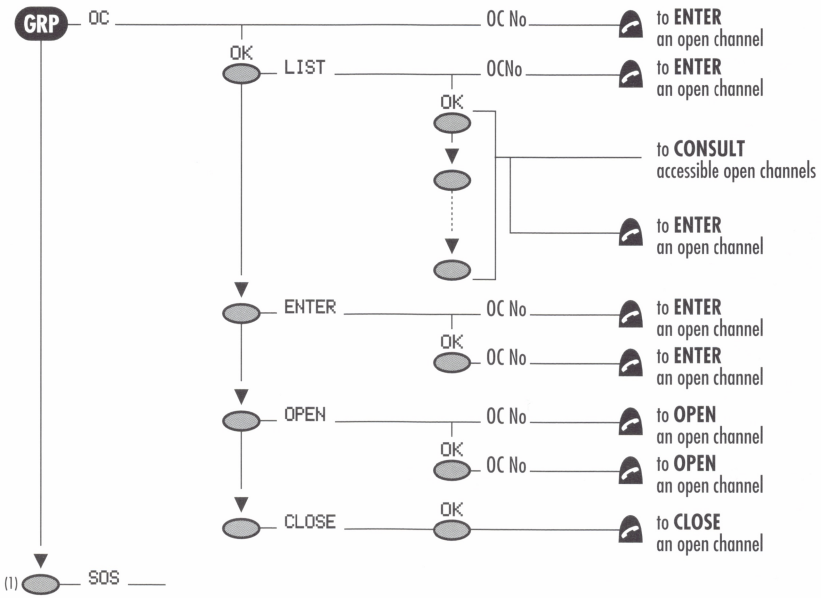
Menu structure 41
Listing available emergency open channels 41
Waiting for entry in an emergency open channel 42
Closing an emergency open channel 42

OPEN CHANNEL MENU

An open channel is a pre-established communication over a given geographical coverage and associated with a set of terminals.

It allows these terminals to communicate with one another by entering the pre-established communication opened by a Regional Network operator or an authorised terminal.

Menu structure

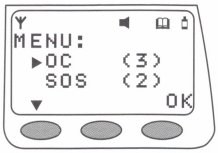


(1) Scrolling possible by pressing GRP repeatedly.

Listing the accessible open channels

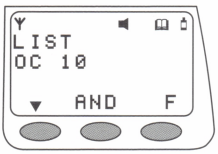
This feature is used to **list** all the open channels set up under the base station and accessible to the user.

- **Press** GRP . The handportable displays:



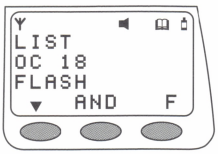
The figure in brackets shows the number of available open channels

- **Press** ⬭ under "**OK**", to select the "**OC**" heading.
- **Press** ⬭ under "**OK**" to select the "**LIST**" feature. The handportable displays either:



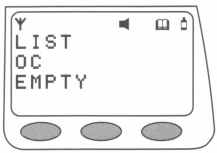
The first available open channel is displayed

or



For a Flash priority open channel

or



No open channel available

The ⬭ key under "**AND**" is used to select the open channel displayed as the first open channel in a scan list and to access the screen for entering the other open channels (see chapter on Scans).

- **Press** ⬭ under "▼" to scroll through the various accessible open channels.
- **Press** 📞 to enter the displayed open channel.

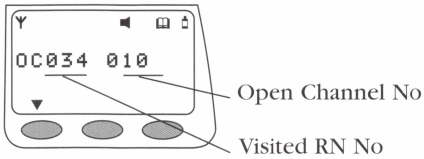
Entering an open channel

An **open channel** can be entered in the following ways:

- either from **listing** the available open channels (see above),
- or by **entering** the number of the open channel (see chapter on How to place a call),
- or from the **directory** (see chapter Memory Menu).

Displaying a visited RN

The open channels are displayed spontaneously with 6 digits when a handportable is outside its home Regional Network (RN).
The number of the visited RN is displayed to the left of the number of the open channel.



Talking

- **Press Push-to-talk** to **speak** in the open channel displayed.

As a result of congestion in the radio channel,
the **Push-to-talk** may be **refused**:
the handportable displays the message "**OVERLOAD**".
Try again later.

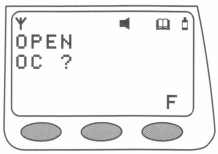
Leaving an open channel

- **Press** and hold **down** to **leave** an open channel.

Opening an open channel

This function is only available to handportables authorized at customisation.
If the handportable is not authorized, the feature is not displayed.
To open an open channel, the handportable must be registered with the RN corresponding to the open channel wich is to be opened.

- **Press** GRP, then ⬭ under "**OK**", to select the "**OC**" heading.
- **Press twice** ⬭ under "▼", then ⬭ under "**OK**" to select the "**OPEN**" feature. The terminal displays:

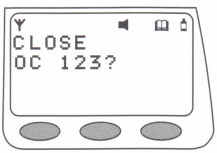


- **Dial** the open channel number (1 to 3 digits).
- **Press** ◢ to open the open channel.

Closing an open channel

This function is only available to handportables authorised at customisation.
If the handportable is not authorized, the feature is not displayed.

- **Enter** the open channel.
- **Press** GRP, then ⬭ under "**OK**", to select the "**OC**" heading.
- **Press three times** ⬭ under "▼", then ⬭ under "**OK**" to select the "**CLOSE**" feature.
  The terminal displays:



- **Press** ◢ to close the open channel.

GROUP MENU IN TALKGROUP MODE

A group is a pre-established communication over a given geographical coverage and associated with a set of terminals which must first be defined by a Regional Network operator.

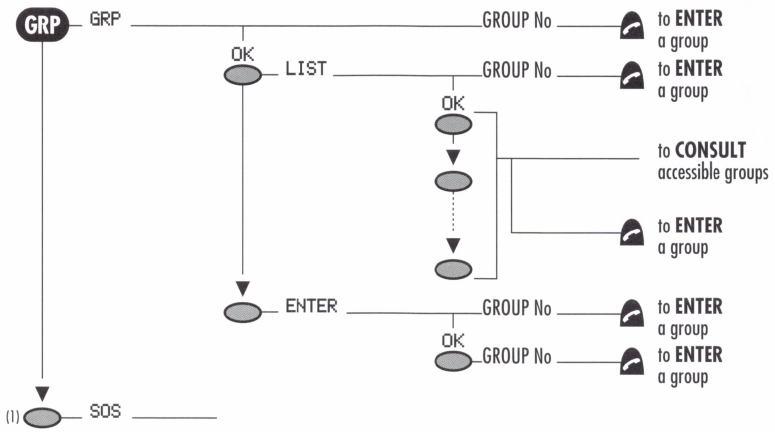
It allows these terminals to communicate with one another by selecting (Talkgroup mode) or by calling (Group call mode) this group.

In Talkgroup mode, the handportable only participates in the selected group (amongst those it belongs to). To participate in more than one group, the handportable must use the Scan function (refer to the Scan Menu).

In Group call mode, when the handportable is on standby, it automatically receives all calls sent to the groups to which it belongs (similar to scan function). As an option, a handportable in Group call mode can call a group to which it does not belong (external group call).

Terminals in Talkgroup and Group call mode can communicate in the same groups.

Menu structure

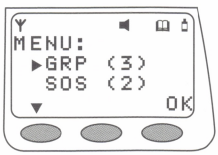


(1) Scrolling possible by pressing GRP repeatedly.

Listing the accessible talkgroups

This feature is used to **list** all the talkgroups set up under the base station and accessible to the user.
These talkgroups are distributed automatically by the network. Talkgroups which are not available under the registration station flash on the display.

- **Press** GRP . The handportable displays:

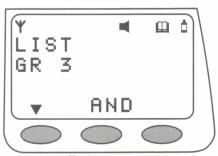


The figure in brackets shows the number of talkgroups to which the handportable belongs (0 to 10))

- **Press** ⬭ under "**OK**", to select the "**GRP**" heading.
- **Press** ⬭ under "**OK**" to select the "**LIST**" feature. The handportable displays either:

Talkgroup 1 is available under the station

or



Talkgroup 3 is unavalaible under the station

"**GR 3**" *flashing*

or

The handportable does not belong to any talkgroup

The ⬭ key under "**AND**" is used to select the talkgroup displayed as the first talkgroup in a scan list and to access the screen for entering the other talkgroups (see chapter on Scans).

- **Press** ⬭ under "▼" to scroll through the various accessible talkgroups.
- **Press** ⬭ to enter the displayed talkgroup.

Entering a talkgroup

A **talkgroup** can be entered in the following ways:

- either from **listing** the available talkgroups (see above),
- or by **entering** the number of the talkgroup (see chapter on How to place a call),
- or from the **directory** (see chapter Memory Menu).

Talking

- **Press Push-to-talk** to **speak** in the talkgroup displayed.

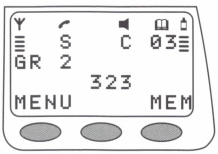
Following congestion,

The **push-to-talk** can be **put on hold**, in which case the handportable emits a continuous on hold beep and displays the message "**WAIT**".

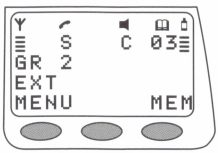
The push-to-talk can be **refused** if the radio channel is busy:
the handportable displays the message "**OVERLOAD**".
Try again later.

Activating a talkgroup

After a talkgroup has been selected, if the latter is activated by a terminal belonging to the talkgroup, the handportable displays:

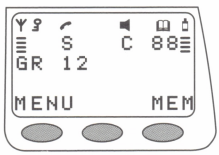


If a terminal which does not belong to the talkgroup (external terminal) activates the talkgroup, the handportable displays:



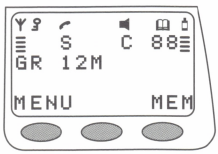
Group merging

The selected talkgroup can be merged with other talkgroups into a multiple group.
In this case, switching over to the multiple group takes place automatically.
At the end of multiple group, return to the initial talkgroup is automatic.
The handportable displays:



The handportable is in talkgroup 12
le talkgroup12

then



Automatic switchover to the multiple group

then

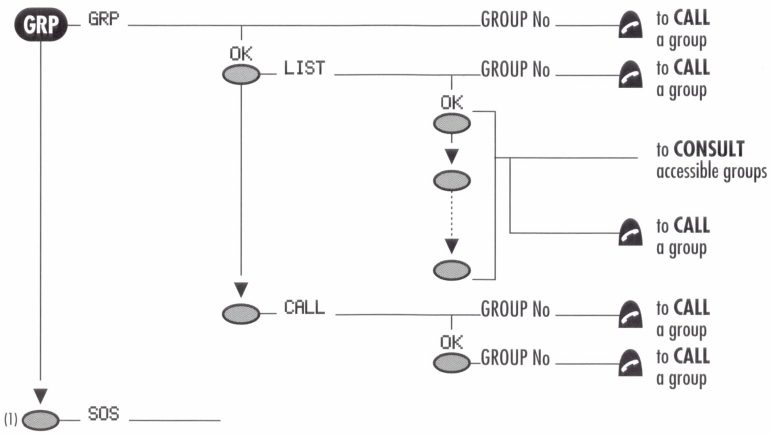
At the end of multiple group, automatic return to the initial talkgroup.

Leaving a talkgroup

- **Press** and hold **down** to **leave** a talkgroup.

GROUP MENU IN GROUP CALL MODE

Menu structure

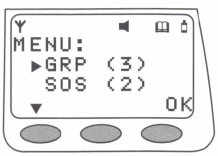


(1) Scrolling possible by pressing GRP repeatedly.

Listing the accessible Groups

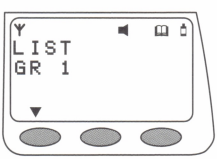
This feature is used to **list** all the Groups set up under the base station and accessible to the user.
These groups are distributed automatically by the network. The groups which are not available under the registration station flash on the display.

- **Press** GRP. The handportable displays:



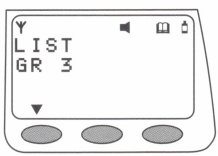
The figure in brackets shows the number of groups to which the handportable belongs (0 to 10)

- **Press** under **"OK"**, to select the **"GRP"** heading.
- **Press** under **"OK"** to select the **"LIST"** feature. The handportable displays either:



Group 1 is available under the station

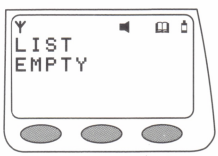
or



Group 3 is unavailable under the station

"GR 3" *flashing*

or



The handportable does not belong to any group

- **Press** under **"▼"** to scroll through the various accessible Groups.
- **Press** to call the group displayed steady on.

Calling a group

A group call can be made in the following ways:

- either from **listing** the available groups (see above),
- or by **entering** the number of the group (see chapter on How to place a call),
- or from the **directory** (see chapter Memory Menu),
- or **automatically** by pressing Push-to-talk, if a "default group" has been defined (see sub-menu **"1 NTWK. COM"** in the Main Menu).

As an option, the handportable can call an external group (one to which it does not belong) by dialing its number (external group call).
The handportable displays **"EXT"**.

Talking

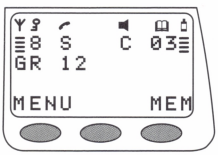
- **Press Push-to-talk** to **speak** in the group displayed.

The push-to-talk can be refused if the radio channel is busy:
the handportable displays the message **"NETWORK OVERLOAD"**.
Try again later.

Receiving a group call

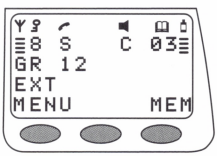
When the handportable is on standby, it automatically receives all calls sent to the groups to which it belongs.

When the call is set up, the handportable displays either:



For an internal group call

or



For an external group call

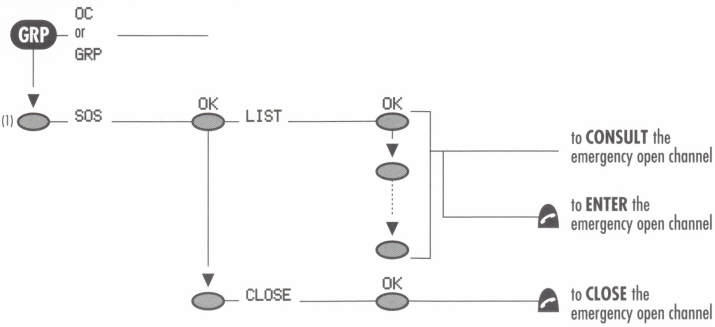
Leaving a group

- **Press** and hold **down** to **leave** a group

EMERGENCY MENU

The Group Menu gives access to the Emergency Menu, whatever the project or the handportable configuration.

Menu structure

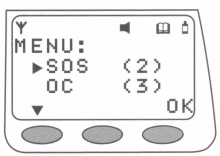


(1) Scrolling possible by pressing GRP repeatedly.

Listing available emergency open channels

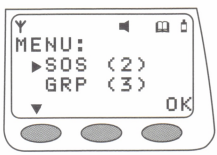
This function is used to **list** the emergency open channels established under the registration station.
Emergency open channels are numbered from 2 to 255.

- **Press GRP twice.** The handportable displays either:



Handportable in open channel mode

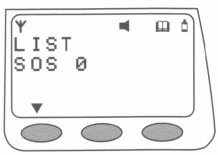
or



Handportable in group mode

The figure in brackets shows the number of available emergency open channels

- **Press twice** under "**OK**" to select the "**SOS**" heading.
- **Press** under "**OK**" to select the "**LIST**" feature. The handportable displays either:



Emergency open channel 0 corresponds to an open channel whose coverage is restricted to the registration station, available to all the terminals present under the cell and uncyphered.

- **Press** under "▼" to scroll through the various available emergency open channels.
- **Press** to enter the emergency open channel displayed.

Waiting for entry in an emergency open channel

When the handportable leaves the coverage of the emergency open channel, the handportable stores the request in memory and waits for entry in the emergency open channel.

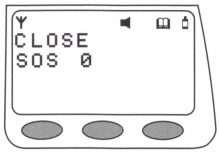
The handportable generates a repeated beep and displays the message "**SOS**" flashing.

As soon as the emergency open channel becomes accessible, the handportable automatically enters the emergency open channel and the message "**SOS**" remains steady.

Closing an emergency open channel

This function is only available to handportables authorised at customisation. If the handportable is not authorised, the function is not available.

- **Enter** the emergency open channel.
- **Press twice** GRP, then ⬭ under "**OK**" to select the "**SOS**" heading.
- **Press** ⬭ under "▼", then ⬭ under "**OK**" to select the "**CLOSE**" feature. The terminal displays:



- **Press** ◢ to close the emergency open channel.

The scan function 44

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Non priority scan sequence 48

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Stopping a scan 49

THE SCAN FUNCTION

A scan is a group communication which enables to successively listen to 2 to 6 open channels or talkgroups (depending on option).

The **open channel** scan can operate in the priority mode or non priority mode, depending on the handportable customisation.

The **talkgroup** scan operates only in the non priority mode.

In the **priority mode**, the **first** open channel in the list **is** declared with **highest priority**.

The handportable automatically switches over to this open channel as soon as this is activated. When the priority open channel is inactive, the handportable can listen to other open channels in the list, but cannot take part in it. The push-to-talk key is continuously associated to the priority open channel.

In the **non priority mode**, all the calls (open channels or talkgroups) are **equivalent:** the handportable listens to the first activated call. By default, the push-to-talk key is associated to the first call in the list or to the active call.

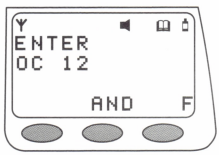
STARTING A SCAN

Starting a scan is possible when the handportable is on standby or in group communication.
The fist call in the list can be selected from the "**LIST**" feature, from the "**ENTER**" feature of the Open channel or Group Menu, or from the directory.
The other calls in the list must be entered via the keypad.

Dialing a scan, e.g.: over 3 calls:

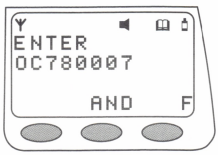
- **Press** GRP then ⬭ under "**OK**" to select the "**OC**" or "**GRP**" heading.
- **Press** ⬭ under "▼", then under "**OK**" to access the "**ENTER**" feature.
- **Dial** the number of the first call in the list:
  - ➢ for an open channel scan: enter either the number of the open channel (1 to 3 digits) or the number of the RN and that of the open channel (6 digits),
  - ➢ for a talkgroup scan: enter the number of the talkgroup (1 to 4 digits).

  The handportable displays either:



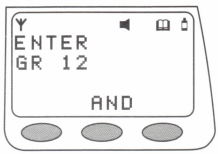
Open channel scan

or



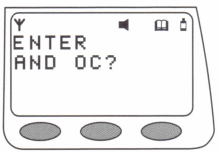
6-digit open channel scan

or



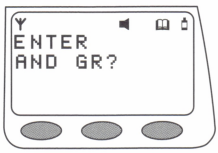
Talkgroup scan

- **Press** ⬭ under "**AND**". The handportable displays either:



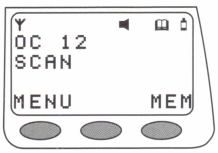
Open channel scan

or



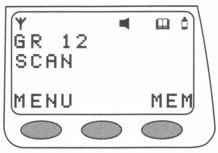
Talkgroup scan

- **Dial** the number of the second call in the list.
- **Press** ⬭ under "**AND**".
- **Dial** the number of the third call in the list.
- **Press** 📞 to start scan. The handportable displays the number of the first call in the list:



Open channel scan

or



Talkgroup scan

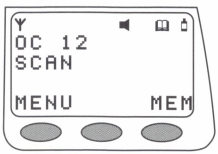
PRIORITY SCAN SEQUENCE

Starting the scan

Starting a scan is only possible under the following circumstances:

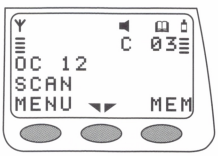
- the handportable must be under priority open channel coverage,
- the priority open channel must be available under the station,
- if it is a 6-digits priority open channel, the handportable must be registered in the RN corresponding to the RN of the priority open channel.

Otherwise, it is not possible to start the scan and the request is put on hold ("**SCAN**" flashes on display). The handportable then becomes **candidate to scanning** and displays, for example:



"**OC 12**" (number of priority open channel) and "**SCAN**" flash

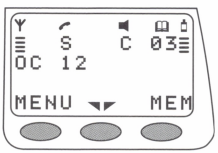
When the **priority** open channel is **accessible**, the scan function is **started** and searches for an active call. ("**SCAN**" displayed steady on) . The terminal displays, e. g.:



Display steady

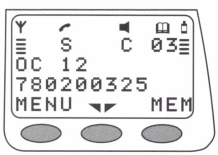
Talking - Activation of the priority open channel

If you press the push-to-talk key or if the priority open channel is activated, the handportable listens to the open channel and displays either:



Handportable in transmit mode

or

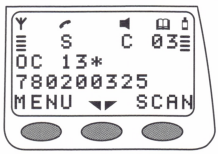


Handportable listening, speaker's address displayed

You are communicating with the priority open channel.
When the priority open channel is active, the handportable ignores any activation of non-priority open channels.

Listening to a non priority active open channel

Listening to a non priority active open channel is possible only when the priority open channel is not active.
When a non priority open channel is activated, the handportable listens to the open channel and displays, e. g.:



The symbol "*" indicates that speaking is impossible in this open channel.
The ⬭ key under "◄►" is used to switch over from **"SCAN"** to **"MEM"** and inversely.

If you press the push-to-talk key, you activate the priority open channel and the handportable switches over to this open channel.

To communicate in a non priority open channel, you must leave the scan function.

Skipping a non priority active open channel (scan relaunch)

To **leave** a non priority active open channel and resume scan:

press ⬭ under **"SCAN"**.

The open channel left is ignored for about 20 seconds.
The handportable resumes scan and can listen to other open channels in the list.

NON PRIORITY SCAN SEQUENCE

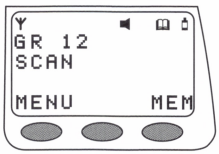
Starting the scan

If **no** call in the list is accessible, the scan **cannot be started** and the request is set waiting ("**SCAN**" flashes on display).

The handportable then becomes candidate to the scan and displays either:

Open channel scan

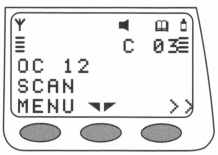
or



Talkgroup scan

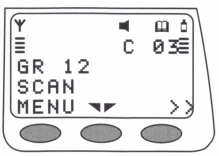
"**OC 12**" or "**GR 12**" and "**SCAN**" are flashing

When **at least one** call is **accessible**, the scan function is started and searches for an active call.
("**SCAN**" displayed steady on).The handportable displays either:



Open channel scan

or



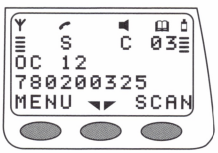
Talkgroup scan

Display steady

- **Press** ⬭ under ">>" to scroll round the various calls in the scan list: calls displayed steady on are available, those which are flashing are unavailable.

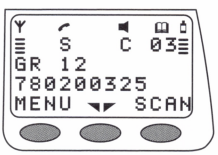
Activation of a call in the list

If one of the calls in the list is activated, the handportable listens to the call and displays either:



Open channel scan

or



Talkgroup scan

- **Press Push-to-talk** to participate in the call,

or

- **Press** ⬭ under "**SCAN**" to **leave** the call displayed and relaunch the scan.

Talking - Default push-to-talk

The push-to-talk key is **associated by default** to the **first** call in the list: the call displayed during the scan search phase.
Pressing the push-to-talk key will activate this call.

The call **associated to Push-to-talk** can be **changed** when the scan is searching, by **pressing** ⬭ under ">>":
the new call associated to Push-to-talk is then displayed steady on if it is available or flashing if it is unavailable.

When a call is active, the push-to-talk key is associated with this call.

Skipping an active call (scan relaunch)

To leave an active call and resume scan:

press ⬭ under **"SCAN"**.

The call left is ignored for about 20 seconds.
The handportable resumes scan and can listen to other calls in the list.

STOPPING A SCAN

- **Press** and hold **down** ◓ to stop the scan.

Structure of the Direct Menu 52

Listing authorised channels in direct mode 53

Entering a channel in direct mode 54

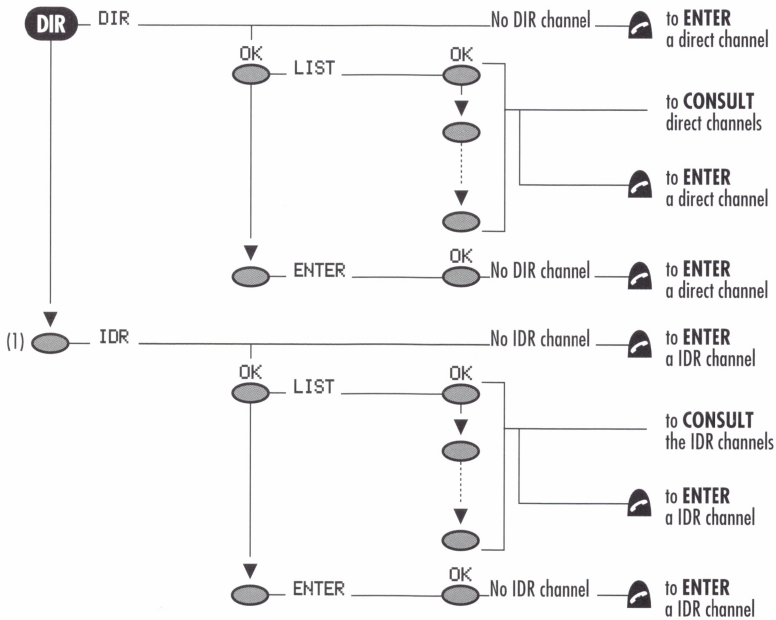
Listing authorised channels in IDR mode 55

Entering a channel in IDR mode 56

STRUCTURE OF THE DIRECT MENU

The Direct Menu permits access to calls in direct mode and in IDR mode.

The Direct Menu is only available if at least one channel (direct or IDR) is available on the handportable. Otherwise, the Direct Menu is not displayed.

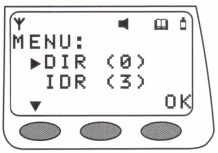


(1) Scrolling possible by pressing DIR repeatedly.

LISTING AUTHORISED CHANNELS IN DIRECT MODE

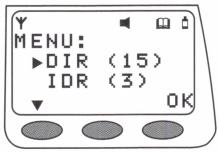
This function is used to **list** authorised channels in direct mode.

- **Press** DIR. The handportable displays either:



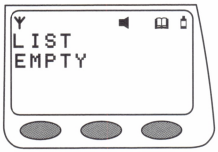
No direct mode channel authorised

or



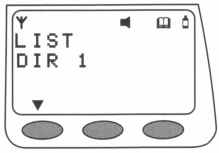
The figure in brackets shows the number of authorised channels (0 to 999)

- **Press** under "**OK**" to select the "**DIR**" heading.
- **Press** under "**OK**" to reach the "**LIST**" feature. The handportable displays either:



No direct mode channel authorised

or



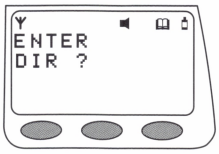
First authorised channel displayed

- **Press** under "▼" to scroll through the different authorised channels.
- **Press** to enter the channel displayed.

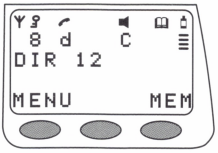
ENTERING A CHANNEL IN DIRECT MODE

You can enter a channel in direct mode either by listing the authorised channels or by dialling the number of the channel, when the handportable is on standby or in group communication mode.

- **Press** DIR and then ⬭ under **"OK"** to select the **"DIR"** heading.
- **Press** ⬭ under **"OK"** to reach the **"LIST"** feature. The handportable displays:



- **Dial** the number of the direct channel.
- **Press** 📞 . When you are connected, the handportable displays:



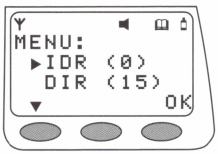
The handportable displays either:

- the registration symbol " Y " if the **"NETWORK MONITORING"** function is activated (see sub-menu **"2 DIR COM."** in the Main Menu),
- the symbol " 🔒 " if the **"ENCRYPTION"** function is activated (see sub-menu **"2 DIR COM."** in the Main Menu),
- under the symbol " 🔒 ", the number 0, 1 or 9 if one of the ten over cyphering keys is activated (see sub-menu **"4 SECURITY"** in the Main Menu).

LISTING AUTHORISED CHANNELS IN IDR MODE

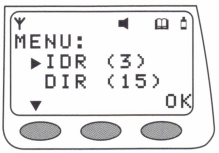
The function is used to **list** authorised channels in IDR mode.

- **Press** DIR **twice**. The handportable displays either:



No IDR mode channel authorised

or

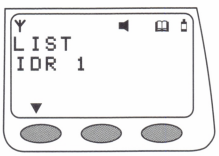


The figure in brackets shows the number of authorised channels (0 to 499)

- **Press** under "**OK**" to select the "**IDR**" heading.
- **Press** under "**OK**" to access the "**LIST**" feature. The handportable displays either:

No IDR mode channel authorised

or



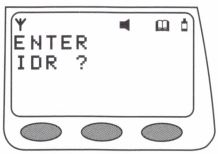
First authorised channel displayed

- **Press** under "▼" to scroll the different authorised channels.
- **Press** to enter the channel displayed.

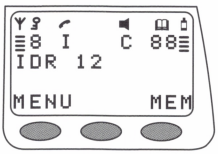
ENTERING A CHANNEL IN IDR MODE

You can enter a channel in IDR mode either by listing the available channels, or by dialling the number when the handportable is on standby or in group communication mode.

- **Press** DIR **twice** and then ⬭ under "**OK**" to select the "**IDR**" heading.
- **Press** ⬭ under "▼" and then "**OK**" to access the "**ENTER**" feature.



- **Dial** the number of the IDR channel.
- **Press** 📞 . When you are connected, the handportable displays:



If the registration symbol (ϒ) is not displayed then the handportable is looking for synchronisation and you cannot speak.

The handportable displays either:

- the symbol "🔒" if the "**ENCRYPTION**" function is activated (see sub-menu "**2 DIR COM.**" in the Main Menu),
- under the symbol "🔒", the number 0, 1 or 9 if one of the ten overcyphering keys is activated (see sub-menu "**4 SECURITY**" in the Main Menu).

Structure of the Directory Menu — 58

Last Number Redial Function — 59

Consultation and recall 59

Clearing the last call 59

Directory — 60

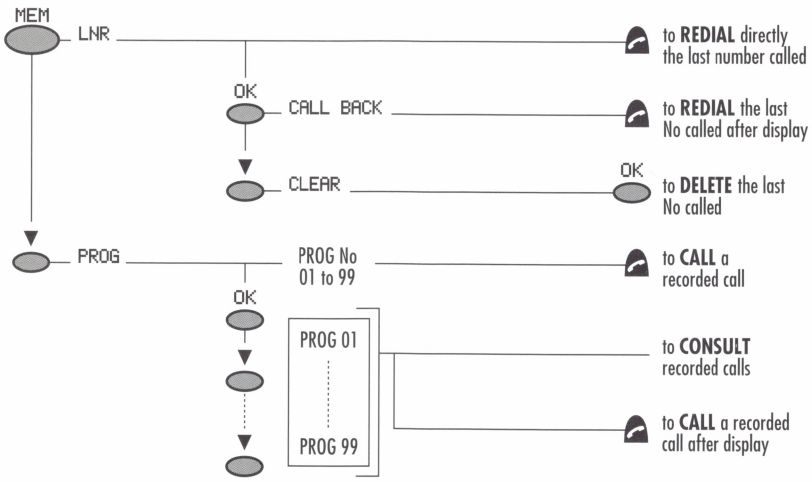
Consulting the directory 60

Sending a call from the directory 61

STRUCTURE OF THE DIRECTORY MENU

The Memory Menu permits access to the Last Number Redial function
(calls back the last number dialled)
and to the memory of the 99 recorded calls (directory).

To save a call in the directory,
refer to the sub-menu "**3 MEMORY**" in the Main Menu.



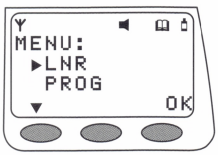
LAST NUMBER REDIAL FUNCTION

The handportable stores the last number dialled regardless of the type of call (individual, multi-party, telephone, entry into a group communication, scan and entering a channel in direct or IDR mode).

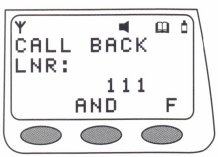
N.B. : the handportable does not retain the priority of the call that was placed initially.

Consultation and recall

- **Press** ⬭ under **"MEM"**. The handportable displays:



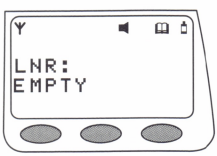
- **Press** ⬭ under **"OK"** to select the **"LNR"** heading.
- **Press** ⬭ under **"OK"** to access the **"CALL BACK"** feature.
  The handportable displays the last number dialled, for an individual call, for example:



- **Press** ◢ to send the call.

Clearing the last call

- **Press** ⬭ under **"MEM"** and then under **"OK"** to select the **"LNR"** heading.
- **Press** ⬭ under **"▼"** and then under **"OK"** to access the **"CLEAR"** feature.
  The handportable displays the most recent call made.
- **Press** ⬭ under **"OK"** to clear the call.

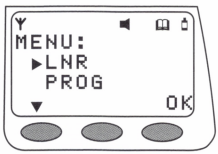


DIRECTORY

You can access one of the 99 calls stored in the directory by scrolling, direct access by dialling the directory number or by using the call selector (see the chapter on How to use the terminal).

Consulting the directory

- **Press** ⬭ under **"MEM"**. The handportable displays:



- **Press** ⬭ under "▼" then under **"OK"** to select the **"PROG"** heading.
- **Press** ⬭ under **"OK"** to select the **"CALL"** feature. The handportable displays the first call recorded.
- **Press** ⬭ under "▼" to scroll through the various recorded calls one by one,

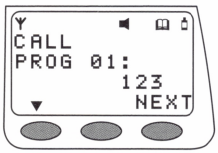
or

- **Press** and hold **down** ⬭ under "▼" to scroll through the calls 10 at a time,

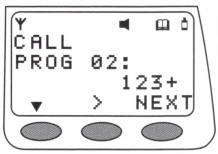
or

- **Dial** the directory number directly.

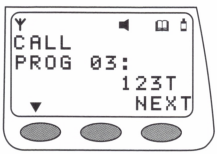
The handportable displays the following depending on the type of call stored:



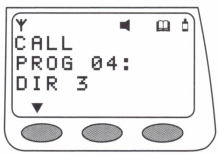
Individual call



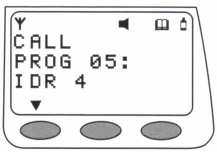
Multi-party



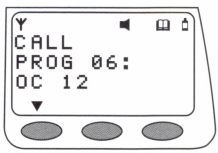
Telephone call



Direct channel

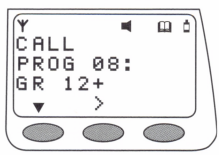


IDR channel



Open channel

Group



Group Scan

The ⬭ key under "**NEXT**" is **activated** for **private calls**: it is used to display the "**EXT**", "**AND**" and/or "**F**" functions which are available depending on the type of call.

The ⬭ key under ">" is **activated** for **multi-party** calls and **scans**: it is used to display the other numbers of the called parties in a **multi-party** call or those of the other group calls in a scan list.

The "+" symbol is no longer displayed when the last number is displayed.

Sending a call from the directory

Sending a call

- **Select** the directory containing the call.
- **Press** to send the call.

Sending a private call with Flash priority

- **Select** the directory containing the call.
- **Press** under **"NEXT"**.
- **Press** under **"F"**.
- **Press** to send the call.

Placing a multi-party call (2 called parties) from a directory call

- **Select** the directory containing the number of the first called party.
- **Press** under **"NEXT"**.
- **Press** under **"AND"**.
- **Dial** the number of the second called party using the keypad.
- **Press** to send the call.

Placing a telephone call from a directory call

- **Select** the directory containing the number of the PABX interface.
- **Press** under **"NEXT"**
- **Press** under **"EXT".**
- **Dial** the external number of the called party using the keypad.
- **Press** to send the call.

Structure of the Message Menu 64

Memory of calls received 65

Consulting memory and calling back 65

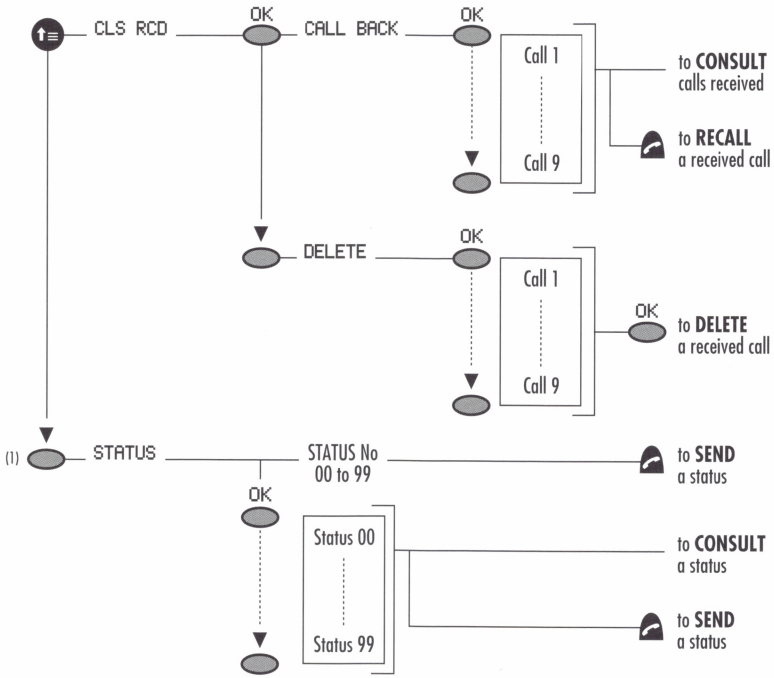
Clearing a call received 65

Status 66

Sending a status 66

STRUCTURE OF THE MESSAGE MENU

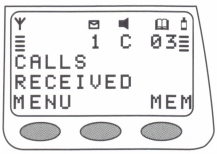
The Message Menu enables access to the memory of the calls received as well as to the "Status".



(1) Simplified scrolling through the list by repeatedly pressing .

MEMORY OF CALLS RECEIVED

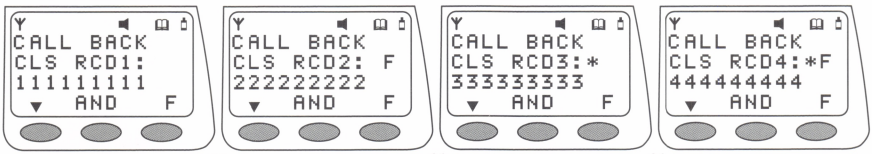
Calls received (individual, multi-party) that are refused or not followed by an answer are stored in the calls received memory. The handportable will then display the message:



The number of calls in the memory is displayed under the icon "🕮". The handportable can memorise up to 9 calls.

Consulting memory and calling back

- **Press** ⓘ and then ⬭ under **"OK"** to select the **"CLS RCD"** heading.
- **Press** ⬭ under **"OK"** to access the **"CALL BACK"** feature.
- **Press** ⬭ under **"▼"** to scroll through the different calls (from the most recent to the first) and select the call to be called back. The terminal displays the position of the call and the correspondent's address, for example:



For a call received just once

For a call received just once in Flash priority mode

*For a call received several times (presence of the symbol *)*

*For a call received several times (presence of the symbol *) and in Flash priority mode on the last occasion.*

- **Press** ◠ to call back the call displayed.
  If the call goes through, it is automatically erased from the memory.

Clearing a call received

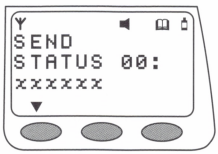
- **Press** ⓘ and then ⬭ under **"OK"** to select the **"CLS RCD"** heading.
- **Press** ⬭ under **"▼"** and then under **"OK"** to access the **"CLEAR"** feature.
- **Press** ⬭ under **"▼"** to scroll through the different calls (from the most recent to the first) and select the call to be cleared.
- **Press** ⬭ under **"OK"** to clear the call selected.

STATUS

A status is a short message that is sent directly to a dispatcher position. It corresponds to a 2-digit code that can be associated with a reference when the handportable is customised. The handportable has 100 statuses in its memory.

Sending a status

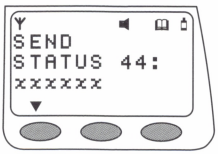
- **Press** twice and then under "**OK**" to select the "**STATUS**" heading.
- **Press** under "**OK**" to access the "**SEND**" feature. The handportable displays the first status recorded:



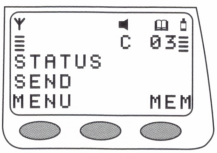
- **Press** under "▼" to scroll through the different statuses recorded one by one (from status 00 to status 100) or **press** and hold **down** under "▼" to scroll through the statuses 10 at a time.
- **Press** to send the status displayed.

or

- **Press** twice to select the "**STATUS**" heading.
- **Dial** the code of the status to be sent: ❹, ❹, for example.



- **Press** to send the status.



The message is displayed for about 10 seconds.
To clear it more quickly, **press** C .

Structure of the Main Menu ____ 68

"1 NTWK COM." sub-menu ____ 70
(communications in network mode)

"2 DIR COM." sub-menu ____ 75
(communications in direct mode)

"3 MEMORY" sub-menu ____ 78

"4 SECURITY" sub-menu ____ 79

"5 METERS" sub-menu ____ 82

"6 NETWORK" sub-menu ____ 83

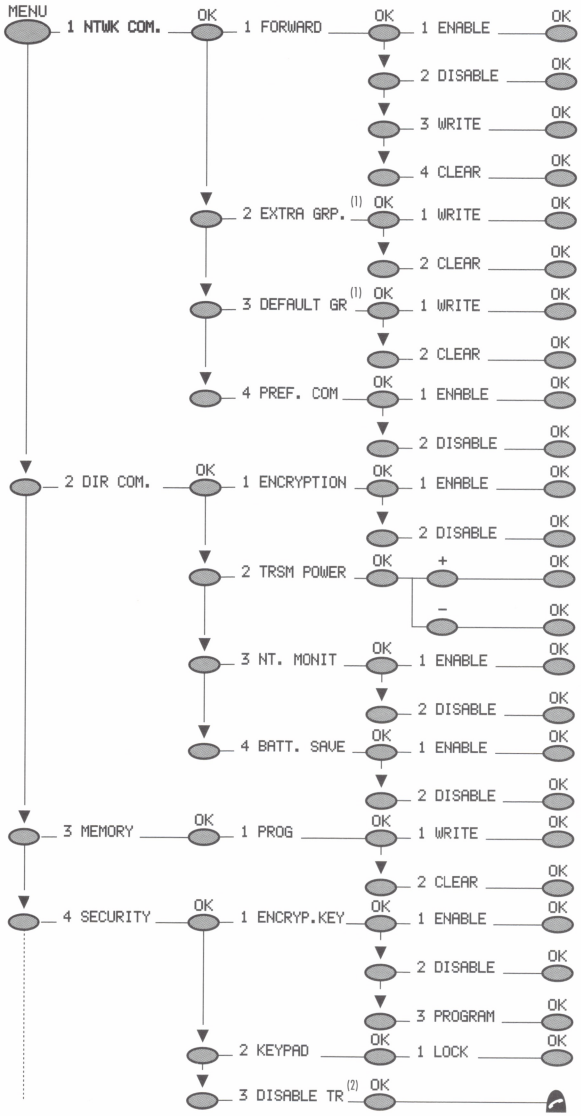
"7 SETTINGS" sub-menu ____ 85

"8 IDENTITY" sub-menu ____ 89

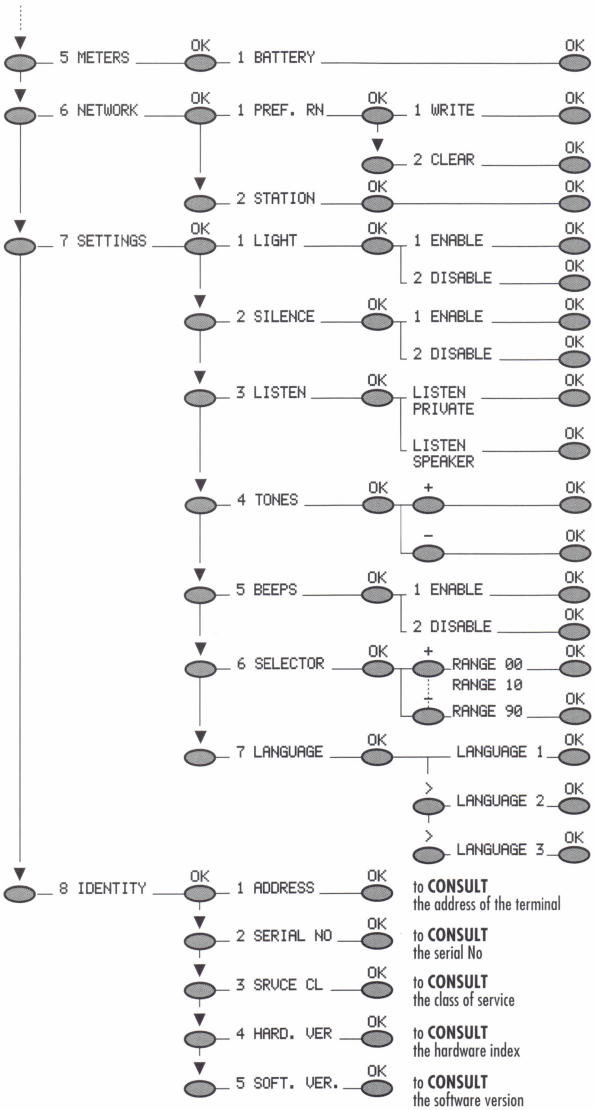
STRUCTURE OF THE MAIN MENU

The Main Menu contains all the options and functionalities concerning the calls and settings of the terminal.

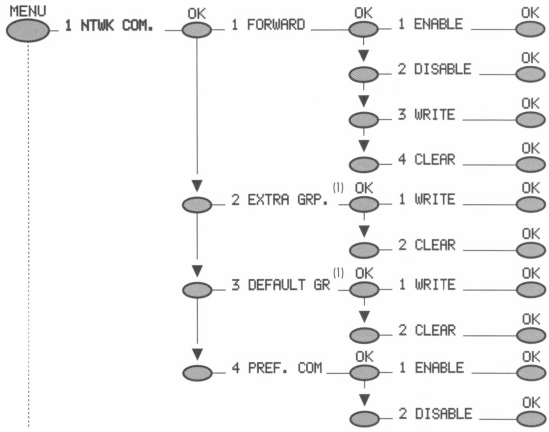
The Main menu is divided into 8 sub-menus wich are themselves divided into several heading. The headings give one or more associated functions.



(1) Headings available only for handportables in Group Call mode.
(2) Optional.


5 METERS
OK
1 BATTERY
OK
6 NETWORK
OK
1 PREF. RN
OK
1 WRITE
OK
2 CLEAR
OK
2 STATION
OK
OK
7 SETTINGS
OK
1 LIGHT
OK
1 ENABLE
OK
2 DISABLE
OK
2 SILENCE
OK
1 ENABLE
OK
2 DISABLE
OK
3 LISTEN
OK
LISTEN PRIVATE
OK
LISTEN SPEAKER
OK
4 TONES
OK
+
OK
–
OK
5 BEEPS
OK
1 ENABLE
OK
2 DISABLE
OK
6 SELECTOR
OK
+
RANGE 00
OK
RANGE 10
RANGE 90
OK
7 LANGUAGE
OK
LANGUAGE 1
OK
LANGUAGE 2
OK
LANGUAGE 3
OK
8 IDENTITY
OK
1 ADDRESS
OK
to CONSULT the address of the terminal
2 SERIAL NO
OK
to CONSULT the serial No
3 SRVCE CL
OK
to CONSULT the class of service
4 HARD. VER
OK
to CONSULT the hardware index
5 SOFT. VER.
OK
to CONSULT the software version

"1 NTWK COM." SUB-MENU (COMMUNICATIONS IN NETWORK MODE)

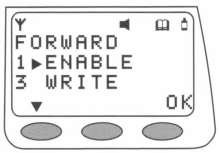


(1) Headings available only for handportables in Group Call mode.

11 FORWARD

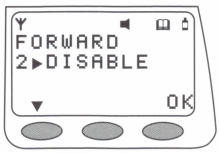
With the **forwarding** function, the handportable can direct all received calls (individual or multi-party) and messages to another terminal.
The address of the terminal where the call has been forwarded is stored in the handportable's memory.

- **Select** the heading **"1 FORWARD"**. The handportable displays either:



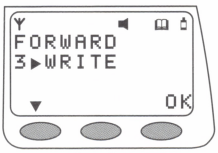
If a forwarding address has been memorised and forwarding is not enabled

or



If forwarding is enabled

or



If no forwarding address has been memorised

111 Enabling the forwarding function

- **Press** ❶ or ⬭ under **"OK"**.
- **Press** ⬭ under **"OK"** to confirm the command.

The handportable automatically exits the Main Menu and the "↳" symbol flashes to indicate that the command is being processed.
When forwarding is effectively enabled the "↳" symbol stops flashing.

112 Disabling the forwarding function

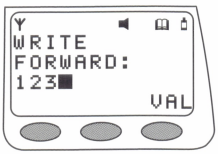
- **Press** ❷ or ⬭ under "**OK**".
- **Press** ⬭ under "**OK**" to confirm the command.

The handportable automatically exits the Main Menu and the "↳" symbol flashes to indicate that the command is being processed.

When forwarding is effectively disabled the "↳" symbol disappears.

113 Writing or changing the forwarding address

- **Press** ❸.
- **Press** ⬭ under "**OK**".
- **Enter** the address (RFSI) of the forwarding terminal.



- **Press** ⬭ under "**VAL**" to store the address of the forwarding terminal.

- **Press** Ⓒ (long press) to exit the Main Menu.

114 Clearing the forwarding address

- **Press** ❹.
- **Press** ⬭ under "**OK**" to confirm the command.

12 EXTRA GRP. (Extra group)

This function is only available for handportables in Group call mode.

The **Extra group function** is used for the manual addition of a group which is not distributed to the handportable by the network, to the list of available groups and to receive all calls sent to that group.

- **Select** the heading **"2 EXTRA GRP"**. The handportable displays either:

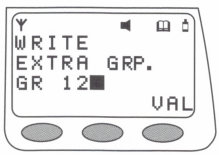
If no group has been defined

or

If a group has been defined

121 Writing or modifying an extra group.

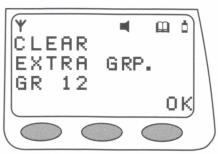
- **Press** ❶ or ⬭ under **"OK"**.
- **Dial** the number of the extra group.



- **Press** ⬭ under **"VAL"** to store the number of the extra group.
- **Press** ⓒ to exit the Main Menu.

122 Clearing an extra group

- **Press** ❷ or ⬭ under **"OK"**.



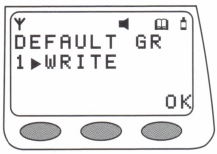
- **Press** ⬭ under **"OK"** to confirm the command.
- **Press** ⓒ to exit the Main Menu.

13 DEFAULT GR (Group by default)

This function is only available for handportables that are in Group Call mode.

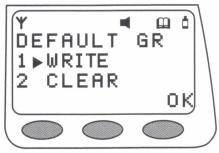
The **Group by default** function allows you to associate the push-to-talk feature with a group.
You can automatically call this group by pressing the push-to-talk key when the handportable is on standby.

- **Select** the heading "**4 DEFAULT GR**" . The handportable displays either:



If no group has been defined

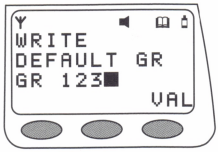
or



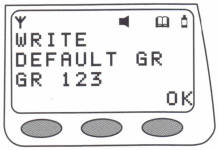
If a group has already been defined

131 Writing or changing the default group

- **Press** ❶ or ⬭ under "**OK**".
- **Enter** the N° of the group by default.



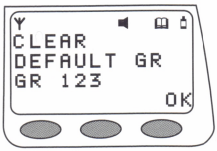
- **Press** ⬭ under "**VAL**" to store the group by default in the memory.



- **Press** ⓒ (long press) to exit the Main Menu.

132 Clear the group called by default

- **Press** ❷.



- **Press** ⬭ under "**OK**" to confirm the command.

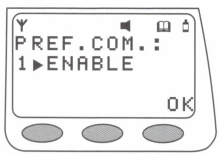
14 PREF. COM. (Preferential communication)

The **Preferential communication** function is used to favour the active group communication with regard to radio reception criteria.

The preferential communication may optionally be an open channel, a talkgroup (Talkgroup mode), the default group called (Group call mode), the emergency open channel or a scan priority communication in priority mode.

The function is available when the handportable is on standby or in group communication and remains active at the end of the communication. The status of the function is stored when the handportable is switched off.

- **Select** the heading **"4 PREF.COM."**. The handportable displays either:



If the function is disabled

or

If the function is enabled

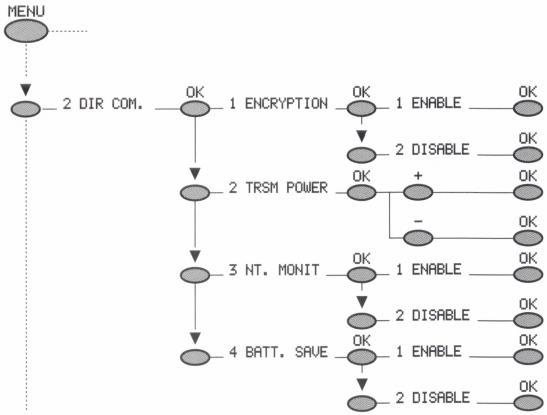
141 Enabling preferential communication

- **Press** ❶ or ⬭ under **"OK"**.
- **Press** ⬭ under **"OK"** to confirm the command.

142 Disabling preferential communication

- **Press** ❷ or ⬭ under **"OK"**.
- **Press** ⬭ under **"OK"** to confirm the command.

"2 DIR COM." SUB-MENU (COMMUNICATIONS IN DIRECT MODE)



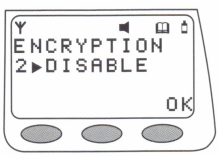
21 ENCRYPTION

The **Encryption** function is used to cypher communications in direct or IDR mode.
The function is available whether the handportable is in communication or not, in direct or IDR mode.
It remains active at the end of the communication and can optionally be stored when the handportable is switched off.

- **Select** the heading **"1 ENCRYPTION"**. The handportable displays either:

If the function is disabled

or



If the function is enabled

211 Enabling encryption

- **Press** ❶ or ⬭ under **"OK"**.
- **Press** ⬭ under **"OK"** to confirm the command.
  The symbol " 🔒 " is displayed on the status line of the display.

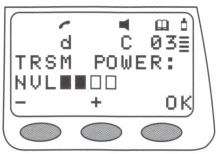
212 Disabling encryption

- **Press** ❷ or ⬭ under **"OK"**.
- **Press** ⬭ under **"OK"** to confirm the command.
  The symbol 🔒 is no longer displayed on the status line of the display.

22 TRSM POWER (Transmit power)

The handportable has **4 transmit power levels in direct mode**.
The function is available when the handportable is in communication on a channel in direct mode and remains stored at the end of the communication.
When the handportable is switched on again, the transmit power level is reinitialised at 2 W (default value).

- **Select** the heading **"2 TRSM POWER"**. The handportable displays the transmit power level enabled:

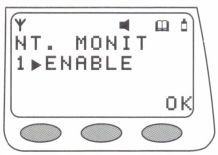


- **Press** ⬭ under "+" or "-" to change the power level or enter the figure corresponding to the desired power level :
  - ➢ ❶ for 100 mW,
  - ➢ ❷ for 400 mW,
  - ➢ ❸ for 1 W,
  - ➢ ❹ for 2 W.
- **Press** ⬭ under **"OK"** to confirm the selected power level.

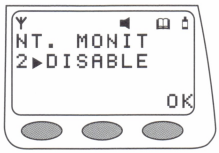
23 NT. MONIT (network monitoring)

The **Network Monitoring** function allows a terminal to receive calls from the network (individual call, multi-party call, telephone, general call, emergency call and data transmission) when it is in standby mode on a direct mode channel.
A call can only be received after a period without calls over the direct channel, and provided that the terminal is located within network coverage.
Answering a call causes a temporary exit from the direct mode.The terminal returns automatically to direct mode when the call is over.
The Network Monitoring function cannot be used in IDR mode.
When the Network Monitoring function is enabled, the Battery saving function is automatically disabled.

- **Select** the heading "**2 NT. MONIT**". The handportable displays:



or



231 Enabling the Network Monitoring function

- **Press** ❶ or ⬭ under "**OK**".
- **Press** ⬭ under "**OK**" to confirm the command.

232 Disabling the Network Monitoring function

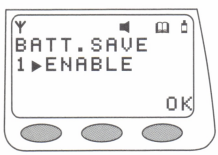
- **Press** ❷ or ⬭ under "**OK**".
- **Press** ⬭ under "**OK**" to confirm the command.

24 BATT. SAVE (Battery Saving)

The **Battery Saving** function allows a handportable to switch over to low consumption mode when it is in standby mode on a channel in direct mode.

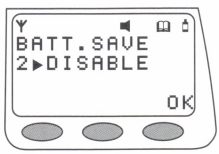
When the Battery Saving function is enabled, the Network Monitoring function is automatically disabled.

- **Select** the heading "**3 BATT. SAVE**" heading. The handportable displays:



If the function is disabled

or



If the function is enabled

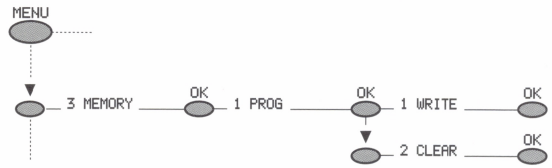
241 Enabling the battery saving function

- **Press** ❶ or ⬭ under "**OK**".
- **Press** ⬭ under "**OK**" to confirm the command.

242 Disabling the battery saving function

- **Press** ❷ or ⬭ under "**OK**".
- **Press** ⬭ under "**OK**" to confirm the command.

"3 MEMORY" SUB-MENU



31 PROG

The **Directory** heading is used to record or erase calls in the directory of the handportable.
You can consult and send calls recorded in the directory by pressing on the ⬭ under "**MEM**"(see Memory Menu chapter).

- **Select** the "**1 PROG**" heading. The handportable displays:

311 Recording a call

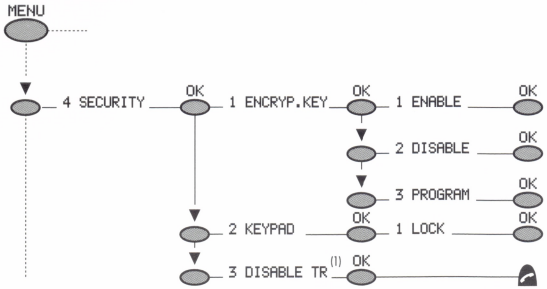
- **Press** ❶ or ⬭ under **"OK"**.
- **Select** the directory position:
  - ➢ by pressing ⬭ under "▼" to scroll through the various positions or,
  - ➢ by pressing and holding down ⬭ under "▼" to scroll through the various positions ten at a time or,
  - ➢ by entering the number of the position directly.
- **Press** ⬭ under **"OK"** to confirm the selected position.
- **Enter** the number of the call to be recorded in the same way as if you were sending it.
- **Press** ⬭ under **"VAL"** to confirm.
- **Press** ⬭ under "▼" to select another position in the directory or

  press C to exit the Main Menu.

312 Erasing a call

- **Press** ❷.
- **Select** the directory position :
  - ➢ by pressing ⬭ under "▼" to scroll through the various positions or,
  - ➢ by pressing and holding down ⬭ under "▼" to scroll through the various positions ten at a time or,
  - ➢ by entering the number of the position directly.
- **Press** ⬭ under **"OK"** to erase the call.
- **Press** C to exit the Main Menu.

"4 SECURITY" SUB-MENU



(1) Optional.

41 ENCRYP. KEY (Encryption key)

The handportable has 10 encryption keys, numbered from 1 to 9 and 0, stored in its memory.
The heading can be inhibited when the handportable is customised, in which case it is not shown.

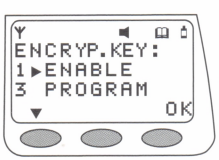
Each of the 10 keys can be used to **over-cypher** calls originally cyphered either by the network in the case of calls in BS connected mode or by the function **"1 ENCRYPTION"** in the sub-menu **"2 DIR COM"** in the case of calls in direct or IDR mode.

An encryption key can have restricted range (applicable only to the active call) depending on the organisation of the terminal or unrestricted range (applicable to all calls).

A key with restricted range can only be enabled when the handportable is in communication and is disabled automatically at the end of the call.

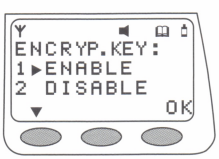
A key with unrestricted range can be enabled whether the handportable is in communication or not and remains enabled for all subsequent calls.
As an option, its status can be stored when the handportable is switched off.

- **Select** the heading **"1 ENCRYP. KEY"**. The handportable displays either:



If no key is enabled

or

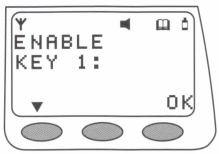


If a key is already enabled

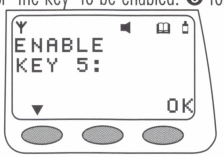
411 Enabling a manual key

If a key is already enabled, enabling another key automatically disables the key previously enabled.

- **Press** ❶ or ⬭ under "**OK**". The first key is displayed:



- **Select** the manual key to be enabled:
  - ➢ by pressing ⬭ under "▼" to scroll through the different keys,
  - ➢ by directly entering the N° of the key to be enabled: ❺ for example.



- **Press** ⬭ under "**OK**" to confirm the command.

The key number is displayed on the status line of the screen during a call.

412 Disabling a manual key

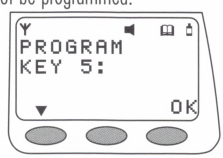
- **Press** ❷. The enabled key is displayed.
- **Press** ⬭ under "**OK**" to confirm the command.

413 Programming a manual key

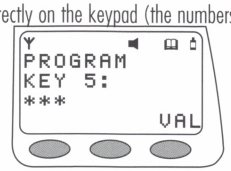
Each of the ten keys associated with a 1-9 digit code. Depending on how the terminal is customised, these codes may or may not be changed. If they are changed, only the terminals who programme the same codes can communicate.

- **Press** ❸.
- **Select** the manual key to be programmed:
  - ➢ by pressing ⬭ under "▼" to scroll through the different keys,
  - ➢ or by entering the N° of the key to be programmed directly: ❺.

  If a key is enabled, it cannot be programmed.



- **Press** ⬭ under "**OK**" to confirm the command.
- **Enter** the code of the key directly on the keypad (the numbers entered are replaced by * on the screen).

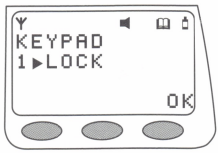


- **Press** ⬭ under "**VAL**" to confirm the entry.
- **Press** C (long press) to exit the Main Menu.

42 KEYPAD

The **Keypad** function allows you to temporarily lock the handportable's keys. When the keypad is locked, only the on/off selector, the volume adjuster, the push-to-talk, the emergency and ⬭ under "**UNLOCK**" keys are available.

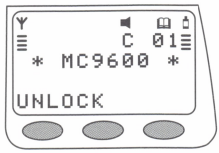
- **Select** the heading **"2 KEYPAD"**. The handportable displays:



421 Locking the keypad

- **Press** ❶ or ⬭ under "**OK**".
- **Press** ⬭ under "**OK**" to confirm the command.

Unlocking the keypad



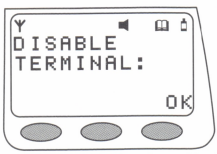
- **Press** ⬭ under "**UNLOCK**".
- **Press** ⬭ under "**OK**" to confirm the command.

43 DISABLE TR (Disabling the terminal) (optionnal)

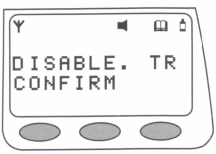
The terminal's disabling function allows you to delete all the sensitive data in the handportable.

CAUTION: **after it has been disabled, the handportable becomes non-operational and must be returned to a maintenance centre to be made operational again.**

- **Select** the "**3 DISABLE TR**" heading. The handportable displays:

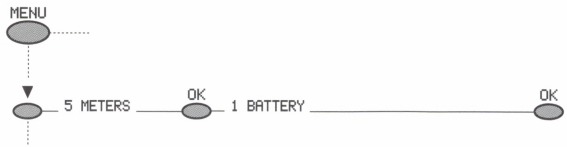


- **Press** ⬭ under "**OK**" to confirm the command. The handportable displays the following:



- **Press** ◠ to confirm the request.

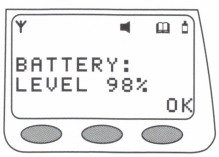
"5 METERS" SUB-MENU



51 BATTERY

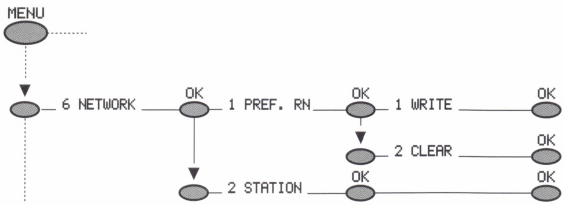
The **Battery** function allows you to consult the battery charge level. The charge level is expressed in the form of a percentage (from 100% for the maximum battery charge to 0% for a completely discharged battery).

- **Select** the heading **"1 BATTERY"**. The handportable displays:



- **Press** ⬭ under **"OK"** to exit the Main Menu.

"6 NETWORK" SUB-MENU

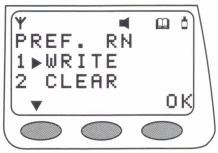


61 PREF. RN (Preferential regional network)

The **Preferential regional network** function allows you to register the handportable preferentially in a regional network other than the regional network to which it belongs.

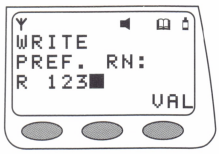
- **Select** the heading **"1 PREF. RN"**. The terminal displays:

or



611 Programming the preferential RN

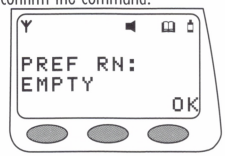
- **Press** ❶ or ⬭ under **"OK"**.
- **Press** ⬭ under **"OK"**.
- **Enter** the N° of the new preferential RN (3 digits).



- **Press** ⬭ under **"VAL"** to confirm the entry.
- **Press** C (long press) to exit the Main Menu.

612 Clearing the preferential RN

- **Press** 2.
- **Press** ⬭ under "**OK**" to confirm the command.



- **Press** ⏻ (long press) to exit the Main Menu.

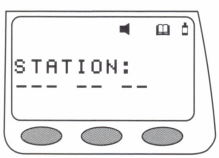
62 STATION

The **Station** function is used to display the identity of the station where the handportable is registered and, if necessary, to re-register the handportable, in which case the handportable will select the "best" available station for registration.

The first 3 digits give the number of the Regional Network where the handportable is registered, the next 2 digits give the number of the switch to which the station is attached and the last 2 digits give the number of the station.

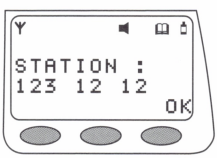
If the **"FORCE"** option is available, the number of the station where the handportable is to be registered can be entered.

- **Select** the heading **"2 STATION"**. The handportable displays either:



When the terminal is not registered

or



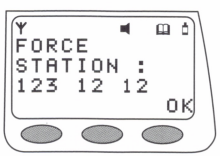
When the terminal is registered

- **Press** and hold **down** ⏻ to exit the Main Menu.

or

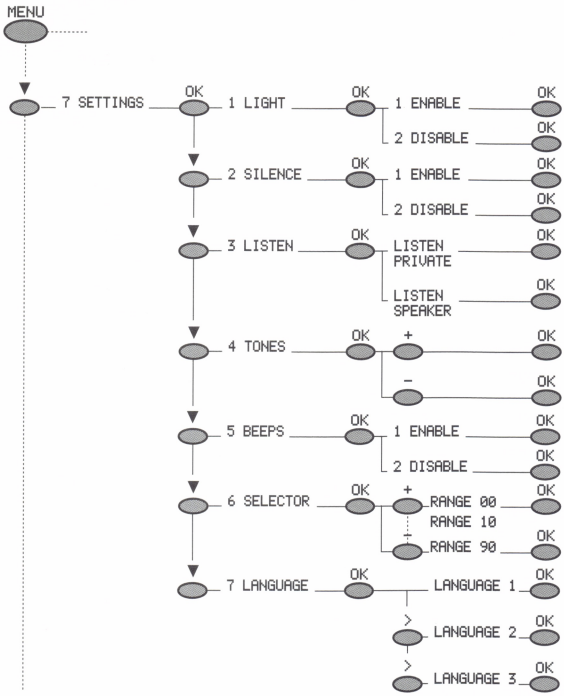
- **Press** ⬭ under **"OK"** to find the "best available station". The handportable exits the Main Menu and is re-registered.

If the "**FORCE**" option is available, the handportable displays:



- **Enter** the number of the station where the handportable is to be registered,
- **Press** ⬭ under **"OK"** to confirm. The handportable exits the Main Menu and is registered with the specified station.

"7 SETTINGS" SUB-MENU

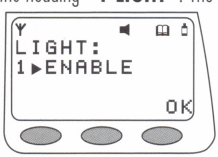


71 LIGHT

The **Light** function is used for backlighting of the keypad keys and the handportable display.

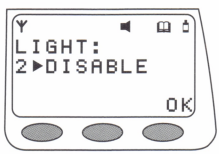
When the function is enabled and the handportable is being used in isolation, the backlight has a timeout lasting approximately 10 seconds. If the handportable is being used in a vehicle cradle, the backlight is permanent.

- **Select** the heading **"1 LIGHT"**. The handportable displays either:



If the function is disabled

or



If the function is enabled

711 Enabling the light

- **Press** ❶ or ⬭ under **"OK"**.
- **Press** ⬭ under **"OK"**.

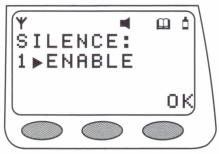
712 Disabling the light

- **Press** ❷ or ⬭ under **"OK"**.
- **Press** ⬭ under **"OK"**.

72 SILENCE

The **Silence** mode allows you to inhibit all the sounds (beeps, rings, routing tones) emitted by the terminal's loudspeaker

- **Select** the heading **"2 SILENCE"**. The handportable displays either:



If the function is disabled

or

If the function is enabled

721 Enabling the silence mode

- **Press** ❶ or ⬭ under **"OK"**.
- **Press** ⬭ under **"OK"** to confirm the command.

The (🔊) symbol flashes on the status line of the display.

722 Disabling the silence mode

- **Press** ❷ or ⬭ under **"OK"**.
- **Press** ⬭ under **"OK"** to confirm the command.

The (🔊) symbol is fixed on the status line of the display.

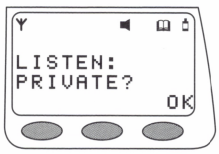
73 LISTEN (collective or private listen mode)

The handportable has two distinct listen modes: the collective mode and the private mode.

Collective listen mode allows you to use the handportable like a walkie-talkie thanks to the collective microphone and loudspeaker.

Private listen mode allows you to use the handportable as a "cellular mobile" thanks to the private microphone, as the loudspeaker volume is automatically turned down.

- **Select** the heading **"3 LISTEN"**. The handportable displays either:



If the function is disabled

or

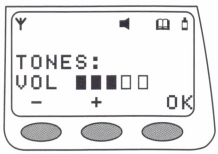
If the function is enabled

- **Press** ⬭ under **"OK"** to confirm the listen mode:
  - ➢ collective listening: the letter C is displayed on the status line,
  - ➢ private listening: the letter P is displayed on the status line.

74 TONES

The **Tones** function allows you to set the **volume** level of beeps, tones and rings in relation to the volume level of the phone.

- **Select** the heading **"4 TONES"**. The handportable displays:



- **Press** ⬭ under "**+**" or under "**-**".

or

- **Enter** a number between 1 and 5 that corresponds to one of the five available levels.
- **Press** ⬭ under "**OK**" to confirm the level chosen.

75 BEEPS

The **Beeps** function allows you to delete acknowledgement, error and information beeps.

- **Select** the heading "**5 BEEPS**". The handportable displays either:

If the function is disabled

or

If the function is enabled

751 Enabling the Beeps

- **Press** ❶ or ⬭ under "**OK**".
- **Press** ⬭ under "**OK**" to confirm the command.

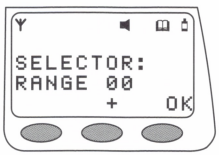
752 Disabling the Beeps

- **Press** ❷ or ⬭ under "**OK**".
- **Press** ⬭ under "**OK**" to confirm the command. Only interruption beeps are then emitted by the handportable.

76 SELECTOR RANGE

The **Selector function** allows you to link directory access ranges to the call selector. These ranges are multiples of 10 that give you access to the 99 numbers of the directory using the call selector that has only 15 mechanical positions.

- **Select** the heading **"6 SELECTOR"**. The handportable displays:

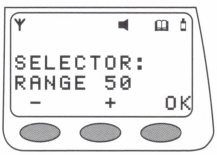


- **Press** ⬭ under "**+**" or "**-**" to scroll through the different ranges (from range 00 to range 90).

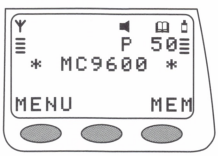
or

- **Enter** a number between 0 and 9 that corresponds to one of the ten available ranges:

  - ➢ **0**: neutral position and access to directories 01 to 15,
  - ➢ **1**: access to directories 10 to 25,
  - ➢ **2**: access to directories 20 to 35,
  - ➢ etc.



- **Press** ⬭ under "**OK**" to confirm the range selected. The range selected is displayed on the display.



77 LANGUAGE

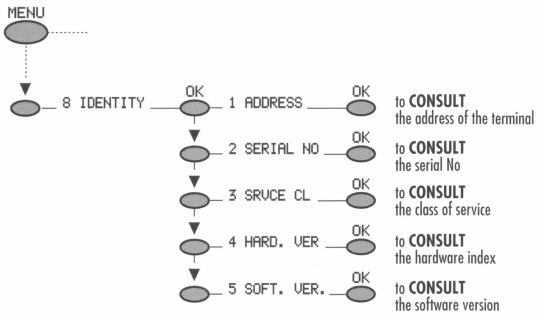
The **Language** function allows you to choose the language in which messages are displayed on the handportable screen from the three languages available (French, English and Germany).

- **Select** the heading **"7 LANGUAGE"**. The handportable displays:

- **Press** ⬭ under ">" to display the next language (the current language is not displayed, only the two other languages are proposed).

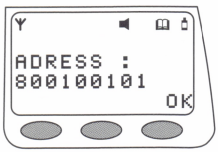
- **Press** ⬭ under "**OK**" to confirm the language chosen.
- **Press** ⓒ (long press) to exit the Main Menu.

"8 IDENTITY" SUB-MENU



81 ADDRESS (Terminal address)

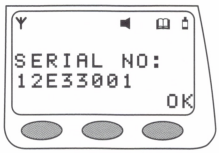
- **Select** the heading "**1 ADDRESS**". The terminal displays:



- **Press** ⬭ under "**OK**" to exit the Main Menu.

82 SERIAL NO (Serial number of the terminal)

- **Select** the heading **"2 SERIAL NO"**. The handportable displays:



- **Press** ⬭ under "**OK**" to exit the Main Menu.

83 SERVCE CL (Service class)

The service class function allows you to identify the type of customisation carried out on the handportable.

The service class identifier has a maximum of 9 characters.

- **Select** the heading **"3 SRVCE CL"**. The handportable displays:

If the service class identifier is entered

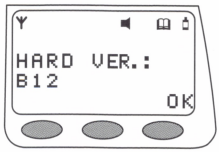
or

If the service class identifier is not entered

- **Press** ⬭ under "**OK**" to exit the Main Menu.

84 HARD VER. (Hardware version of the terminal)

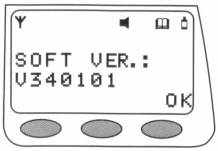
- **Select** the heading **"3 HARD. VER"**.The handportable displays:



- **Press** ⬭ under "**OK**" to exit the Main Menu.

85 SOFT. VER. (Software version)

- **Select** the heading **"4 SOFT. VER."**. The handportable displays:



- **Press** ⬭ under "**OK**" to exit the Main Menu.

The display indicates "LOST STATION" ——— 92

An open channel or group has been lost ——— 93

The call has been cut off ——— 95

Battery problems ——— 96

Other operating problems ——— 97

THE DISPLAY INDICATES "LOST STATION"

1- you were on standby or engaged in a private call

the handportable displays:

You exited the network coverage, or being located in a shadow area (tunnel, coverage hole, etc.): **Move.**

If the Y and ≡ symbols are displayed again: **Make the call again.**

If the Y and ≡ symbols are not displayed, you can make a direct mode call (see Direct Menu chapter).

If necessary, make a direct mode emergency call: **press** and hold **down** the key.

2- you were engaged in a private or group call,

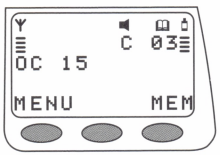
the handportable displays:

The link between the base station and the rest of the network has been interrupted, you are automatically switched to the LOCAL OPEN CHANNEL, and communication is established with all the terminals located under the same base station.

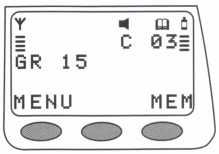
AN OPEN CHANNEL OR GROUP HAS BEEN LOST (DEPENDING ON THE OPTION)

1- the open channel or group number is flashing

1ST CASE



or



and

The handportable has good network reception (symbol Y and maximum field level " ≡ " displayed)

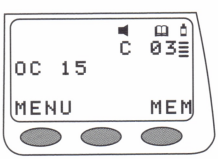
(for example "**OC 15**" or "**GR 15**" is flashing)
The call is no longer available: you are no longer within the coverage of your call or your open channel has been closed.

The handportable stores in its memory the request to enter into the call. It will automatically return into the call as soon as it becomes available again.

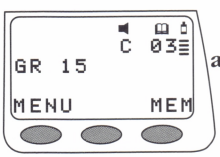
You can send an individual call or a multi-party call
You can enable the "**PREF COM**" function (see sub-menu "**1 NTWK COM**" in the Main Menu): if the handportable is registered with a station which is not part of the call coverage, it will try to register with a station within the call coverage, subject to its proximity, regardless of the quality of radio reception.
Otherwise, you can enter another call:

- **Press** GRP
- **Press** twice ⬭ under **"OK"**.
- **Scroll through** the available open channels or groups by pressing ⬭ under "▼".
- **Press** 📞 to enter the call displayed.

2ND CASE



or



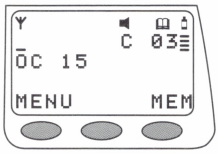
and

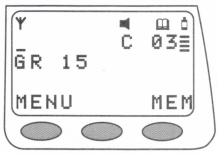
The symbols " Y " and ≡ are no longer displayed

(for example "**OC 15**" or "**GR 15**" is flashing)
you have lost network coverage.
Move position in order to regain network coverage.

You can make a direct mode call (see Direct Menu chapter).

If necessary, make a direct mode emergency call : **Press** and hold **down** the 🚨 key.

3ND CASE 

or 

and Network reception is poor

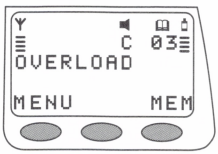
Move position in order to find better reception.

If the **"PREF COM"** function is enabled, you can disable it (see sub-menu **"NTWK COM"** in the Main Menu): the handportable will favour radio reception criteria in relation to the selected call (you may lose the call you are engaged in).

You can make a direct mode call (see Direct Menu chapter).

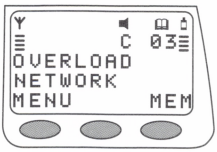
If necessary, make a direct mode emergency call: **press** and hold **down** the key.

2- the display indicates



Your request to talk in the open channel or talkgroup is refused because of network congestion.
Try again later.

3- the display indicates (handportable in Group call mode)



Network resources are being used for other calls.

Try again later.

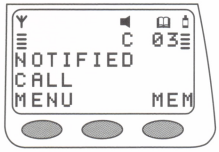
4- the handportable displays "OPEN CHANNEL"

Refer to p. **92**.

THE CALL HAS BEEN CUT OFF

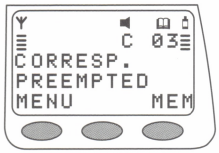
The handportable displays:

1-



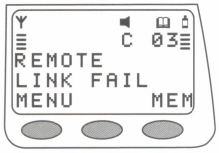
The operator called is unavailable.
The call has been registered.

2-



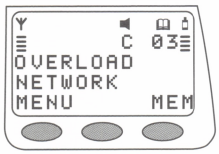
The called party has been switched to a priority call. Your party has been switched to a higher priority call: **Call back later.**

3-



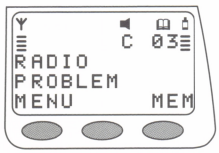
Your party has a link problem with the network: **Call back later.**

4-



Although the network resources are mobilized or higher priority calls: **Call back later.**
You can make a FLASH call.
⚠ This action may destroy the calls in progress.

5-



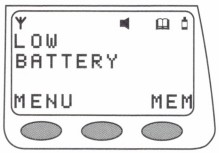
Your terminal has a radio exchange problem with the network: **Call back later.**

6- "LOST STATION" Refer to p. **92**.

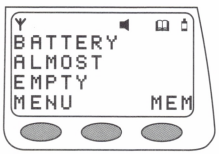
7- "OPEN CHANNEL" Refer to p. **92**.

BATTERY PROBLEMS

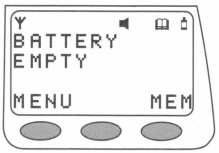
The handportable displays:

1- 

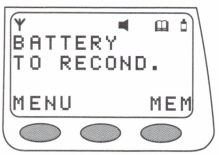
The battery charge level is less than 10% of full capacity.
Recharge the battery.

2- 

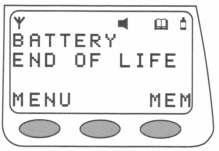
The battery charge level is close to the minimum level.
Recharge the battery.

3- 

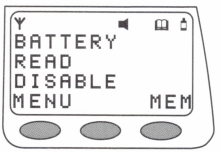
The minimum battery charge level has been reached. This message is displayed for 5 seconds, then the handportable switches off.
Recharge the battery.

4- 

The number of battery charge / discharge cycles before reconditioning has been reached. You are advised to carry out battery refresh operation.
Refer to the G2 Terminal Technical Manual.

5- 

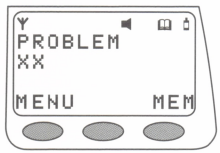
The maximum number of battery reconditionings has been reached and the battery is at the end of its useful life.
Respect the safety instructions concerning battery recycling.

6- 

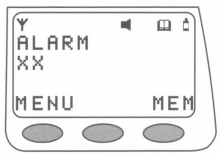
The battery used is not an authorised type of battery.

OTHER OPERATING PROBLEMS

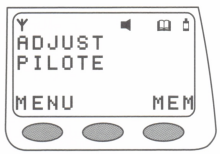
The handportable displays:

1- 

A configuration problem has been detected in the handportable. The code XX indicates the type of problem in digital form. Refer to the G2 Terminal Technical Manual for the various codes. The handportable has access to direct mode.

2- 

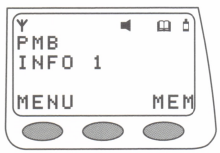
An operating fault has been detected.
The code XX indicates the type of fault in digital form. Refer to the G2 Terminal Technical Manual for the various codes. The handportable is no longer operational.

3- 

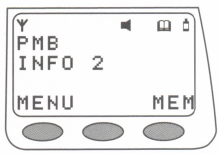
The handportable radio pilot needs adjusting. The handportable is no longer operational. Refer to the G2 Terminal Technical Manual.

4-

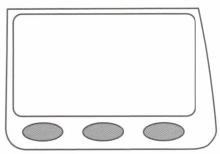
The handportable RAM battery is defective. Refer to the G2 Terminal Technical Manual.

5- 

Switch off, then switch back on the terminal. If the problem persists, return the terminal to the return and repair centre.

6- 

Switch off, then switch back on the terminal. If the problem persists, return the terminal to the return and repair centre.

7- 

Recharge the battery or replace it with a fully charged battery. If the fault persists, refer to the G2 Terminal Technical Manual.

1

To **reply** to a call, **press** or Push-to-talk.

To **refuse** a call, **press** .

The call refused is stored unless it is an emergency call.

2

Redial function

To re-dial the last number called,

press under **"MEM"** then .

3

To directly consult a call stored in the directory:

press under **"MEM"** and then enter the directory No.

To make the call, **press** .

4

To assign a priority to your call:

press under **"F"** before making the call.

This action may cut off the calls in progress.

5

To communicate in **direct mode**

Press DIR, then **enter** the channel number and **press**

In direct mode:

to remain in contact with the network: enable **"NT. MONIT"**

(see sub-menu **"2 DIR COM."** in the Main Menu),

to break contact with the network: disable **"NT. MONIT"**

6

To enter into an open channel call or call a group

1. **Press** GRP.
2. **Dial** the open channel or group No.
3. **Press** .

7

When a message indicating the opening of a new open channel is displayed, **press** **to enter** this open channel,

press C to **erase** the message.

8

To determine which open channels or groups are accessible

Press GRP then ⬭ under **"OK" twice** to access the list.
Scroll through the accessible open channels or groups
by pressing ⬭ under "▼".
If you want to enter into the displayed open channel or group:
press .

9

"*" displayed (general call or priority scan)

"*" indicates that it is not possible to talk. You can only listen.

10

To **access** a Main Menu **function** directly:
press ⬭ under **"MENU"** + **enter** the function code (see chapter on Shortcuts in the Main Menu).

11

To **display** the **various calls**
in a non-priority scan:
press ⬭ under ">>" when the scan is searching.

12

To **erase** a display before its time out:
press C.

13

In a Menu:

To **return** to the previous level: **press** C (short press)
To **exit** the menu: press C (long press)

14

Each terminal is identified by a 9-digit number (adress).

for example: 780 2 00 104 or 780 2 0 2344
I I I I I I I I
R F S I R F S I

R corresponds to the regional network number.
F corresponds to the fleet number.
S corresponds to the sub-fleet number.
I corresponds to the individual number.

To call a number belonging to your sub-fleet, dial **I** only.
To call a number belonging to your fleet, dial **SI**.
To call a number belonging to your regional network, dial **FSI**.
To call a number not belonging to your regional network, dial **RFSI**.

Anti-gossip

In BS connected mode, an anti-gossip device cuts off transmission after 30 seconds (default value).

Customisation

The handportable is customised by the TPS (Terminal Programming Station). It consists in authorising or inhibiting access to certain functions available on the handportable. An inhibited function may be shown but disabled, or masked from the user.

Encryption

BS connected communications, with the exception of emergency calls and telephone calls (optional), are automatically encrypted.
Communications in direct mode are established in clear and may be encrypted at the requester's initiative.

Group

The group allows set to communicate together when it is selected.
A group has a single coverage area (associated to a single geographical coverage). A terminal with the group option operates either in Talkgroup mode, or in Group call mode according to personalization.

Group communication

The term "group communication" covers open channel, group (talkgroup or group call), scan, emergency open channel and general call communications.

Manual key

Depending on how your terminal is customised, you can have a base of ten pre-programmed manual keys that allow you to cypher a call in progress in direct, IDR, and BS connected modes. Each key corresponds to a 1- to 9- digit code which can be modified. Changing the code is only useful if those you usually speak with also change their code and choose the same one as you

Non priority call scanning

In non priority mode the terminal switches over to one of the calls in the list as soon as it becomes active.
Speech mode is enabled in the active call or in the call associated with the Pusk-to-talk.

Open channel

The open channel allows a group of terminals to communicate with each other "by entering" a pre-established communication (open).
The open channel is established within a given geographical area.

Preferential regional network

The default for the preferential regional network (RN) is the home RN (the RN that appears in the RFSI) or the RN number programmed in "Choice of preferential regional network".

Priority call scanning

With priority scanning, the first call in the list has priority. The terminal switches over to the priority call as soon as it becomes active and ignores all other calls. When the priority call is inactive, the terminal listens to other calls in the list. Speech mode is systematically enabled in priority calls.

Push-to-talk

Long key on the side of the handportable providing 2 functions: speak during a call or answer a call

Registration

To communicate over the network, a radio terminal must be registered, in other words, the system knows the base station under which the terminal is located, and the terminal's communications access rights.

Scan

The scan function allows users to listen-in to several open channels or talkgroups in succession.

1 COMMUNICATIONS IN NETWORK MODE (NTWK COM.)

11 Forward
111 Enable
112 Disable
113 Write
114 Clear
12 Extra group (Extra Grp.)
121 Write
122 Clear
13 Group by default (Default GP)
131 Write
132 Clear
14 Preferential communication (Pref. com)
141 Enable
142 Disable

2 COMMUNICATIONS IN DIRECT MODE (DIR COM.)

21 Encryption
211 Enable
212 Disable
22 Transmit power (TRSM power)
23 Network monitoring (Nt. monit.)
231 Enable
232 Disable
24 Battery save (Batt. save)
241 Enable
242 Disable

3 MEMORY

31 Prog
311 Write
312 Clear

4 SECURITY

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411 Enable
412 Disable
413 Program
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421 Lock
422 Unlock under "UNLOCK" + under "OK"
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EQUIPMENT COMPLIANCE TO EUROPEAN STANDARDS

The equipment used for the configurations described in this document complies with the following European standars:

- "ElectroMagnetic Compatibility" (EMC) Standard n° 89/336/CEE amended by 92/31/CEE and 93/68/CEE directives.
- "Low Voltage" (LVD) standard (electric safety for hardware and personnel) n° 73/23/CEE amended by 93/68/CEE directive.

The tests carried out have proven that the equipment complies with one or several of the following standards related to these dircectives: ETS300279, EN50081-1, EN50082-1, EN60950 or EN60335-1 and EN60335-29.

During installation, the state-of-the-hart procedures must be followed in order to maintain compliance with European requirements.

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